



Mining Fundamentals & Economics 2009

A SERIES OF PRACTICAL SEMINARS FOR PROFESSIONALS INTERESTED IN THE MINING INDUSTRY

23 February	Mining for Non-Miners with a Coal focus
24 February	Mining for Non-Miners with a Metals focus
25 – 26 February	Mining Economics
27 February	Networking Function & Keynote Address

Supported by Queensland Government Trade and Investment Office - Hong Kong

Venue: Cliftons | 6F | Lincoln House | Taikoo Place | 979 King's Road | Quarry Bay | Hong Kong

How you will gain from these very practical seminars:

- ▶ **Understand** the fundamentals of coal and metal mining operations
- ▶ **Gain a greater knowledge** of mining process, practices, concepts and terminology in coal and/or metals
- ▶ **Integrate and apply economics** into mining evaluations for robust decision making
- ▶ **Develop cash flow analysis** using compounding and discounting formula
- ▶ **Receive a comprehensive update** on coal and metal mining methods worldwide
- ▶ **Network with other key players** in the mining investment industry in your region

For over 20 years, Runge has been providing leading practice learning solutions to the mining and mining related industries worldwide. Recognised as unique in the industry, Runge's training courses and seminars capture the working knowledge and challenges our consultants deal with on a daily basis in project work and software implementations, making our seminars real world orientated and practical.

Our presenters are experienced mining professionals with a combined total of more than 40 years of managerial and operational experience in a wide variety of roles in the mining industry.

Case studies and examples used in the seminars are drawn from Runge's direct experience and involvement in the mining industry worldwide.

Day 1

Mining for Non-Miners (Coal Focus)

Day 2

Mining for Non-Miners (Metals Focus)

Objective of the Seminars:

The aim of these two seminars is to provide those from a non-mining background with a comprehensive understanding of the coal and metals mining industry. As a result of attending this seminar participants will have a greater understanding of the operational practices pivotal to the coal and metals mining industry, be able to interpret essential terminology and feel more comfortable interacting with mining industry staff.

Attendees have the choice of registering for both days or either the COAL or METALS day.

Seminar Content:

The Coal Story

- ▶ The financial and economic significance of the coal mining industry, resource locations, mining methods, key players, frequently used terminology.

Geology and Ore Reserves

- ▶ Geology, coal formation exploration techniques, overview of ore reserves, modelling and its limitations, coal types and quality reporting terminology and standards.

Open Cut Mining

- ▶ An overview of open cut mining, mine planning and its role in the mining process, mining economics, scheduling, equipment and uses, drilling and blasting, mine services and safety, environmental considerations.

Underground Mining Methods

- ▶ An overview of underground mining, methods and design, mining economics, mine development, underground equipment, mine services and safety, environmental considerations.

Coal Handling and Preparation Plant

- ▶ An overview of coal handling and preparation plant, understand the principal process stages in coal preparation, equipment, separation methods, coal qualities.

Seminar Content

The Metals Mining Industry

- ▶ The financial and economic significance of the metals mining industry, resource locations, mining methods, key players, frequently used terminology.

Geology and Ore Reserves

- ▶ Geology, ore body formation, mineral exploration, overview of ore reserves, modelling & its limitations, reporting terminology and standards.

Open Cut Mining

- ▶ An overview of open cut mining, mine planning and its role in the mining process, mining economics, scheduling, open cut equipment and uses, drilling and blasting, mine services and safety, environmental considerations.

Underground Mining Methods

- ▶ An overview of underground mining, methods and design, mining economics, mine development, equipment, mine services and safety, environmental considerations, appreciate the different mining methods used with different ore body types.

Ore Handling and Processing

- ▶ Mineral processing and its role in the metal production chain, introduction to minerals and ores, principal process stages, equipment, physical properties used to process minerals.

Who Should Attend:

Those from a non-mining background who wish to achieve a greater understanding of mining operations. In particular, those who are looking to achieve effective working relationships with core mining staff or who have peripheral contact with the mining industry. We typically present these seminars to Administration staff, Accountants, Finance staff, Mine Operations staff, Engineers new to the mining industry, Senior Executives, Legal staff, Bankers, Investment Consultants, Financial Analysts, Management Consulting Companies, HR staff and IT staff.

“ Very enjoyable - learnt a lot regarding mining which all people who work in the mining industry should know i.e. overall processes and basic definitions. ”

Day 3 & 4

Mining Economics

Seminar Objective:

The aim of this seminar is to provide a solid foundation in the fundamental and principles of mining economics. It focuses on cost efficiencies that can be made in each step of the mining process. It also provides an introduction to systematic mine planning and reinforces the importance of engineering decision-making based on costs. At the completion of this seminar participants will take away a set of templates and solutions that can be utilised in a variety of analyses in the future.

Seminar Content:

Integrating Economics into Mining

- ▶ The mine planning process, application of economic evaluation procedures.

Time Value of Money

- ▶ Value at a constant point in time, discounted cash flow analysis, risk, uncertainty, inflation & constant money calculations.

Break Even Analysis

- ▶ Discounted cash flow ranking criteria, Discounted average cost.

Cost Effective Mining Schemes

- ▶ Key elements, systematic planning process, economic data at each phase of the planning cycle, incremental costing for mining alternatives.

Development Strategies for Maximum Value

- ▶ Undeveloped deposits, initial assessments, capital values and development strategies.

Investment Decisions involving Uncertainty, Risk & Return

- ▶ Discounted cash flow - comparison of two alternatives, payback and sensitivity analysis.

Operating Mine Case Study

Who Should Attend:

The seminar is recommended for personnel who play pivotal roles in collecting, analysing, and presenting information for economic evaluations. Anyone who has an interest in understanding how to improve the economics of their mining operations should also attend.

Participants typically include:

- ▶ Investment Bankers and Financial Analysts
- ▶ Business and Strategic Analysts
- ▶ Financial and Management Accountants
- ▶ Mine Managers and Superintendents
- ▶ Operational and Planning Engineers

“ This seminar will keep your whole team thinking costs, economics, and profitability. It will give you the tools for robust decision-making.”

Seminar Schedule:

Registration: 8:30am
Seminar Begins: 9:00am
Morning Break: 10:30am
Lunch: 12:30pm
Afternoon Break: 3:30pm
Close: 5:30pm

Delivery Method:

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

Seminar Documentation & Certification:

You will receive comprehensive seminar documentation for future reference. On successful completion of this seminar you will be awarded a Runge Training Certificate recognised worldwide.

Computer Supplied:

Computers will be provided for the Mining Economics seminar on Day 3 & 4.

Bonus Offer:

Attendees at the Mining Economics seminar will receive a signed copy of Dr Ian Runge's book entitled "Mining Economics & Strategy."

Networking Function & Keynote Address by Dr Ian Runge - Business Strategist



In conjunction with the mining seminars, we will be conducting a mining networking event where Dr Ian Runge, global expert in the field of mining economics and strategy and the author of two best-selling books, "Mining Economics and Strategy" and "Capital Uncertainty: The Capital Investment Process in a Market Economy" will deliver a keynote address entitled -

"Boom or Bust?

- Just part of the everyday world of the mining industry!"

Mr Simon Lee, Commissioner, Trade Queensland, Hong Kong and Guangzhou will present an overview of investment opportunities in the Queensland mining sector.

Friday 27 February 2009 | 5.30pm for 6:00pm – 8:00pm | Venue to be advised

This special event is offered as a bonus to those attending the Mining Fundamentals and Economics seminars. Please indicate on the Registration Form if you would like to receive an invitation.

Registration Form

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Choose your seminar/s

<input type="checkbox"/> 1 Mining for Non-Miners - Coal Focus	23/02/09	1 day
<input type="checkbox"/> 2 Mining for Non-Miners - Metals Focus	24/02/09	1 day
<input type="checkbox"/> 3 Mining Economics	25-26/02/09	2 days
<input type="checkbox"/> 4 Keynote Address & Networking Function	27/02/09	2 hrs

Book early & receive a **FREE** invitation to the Keynote Address & Networking Function

* Registration fee include expert tuition and comprehensive seminar documentation and workshop materials. Luncheon and refreshments are also included.
* All prices are in Australian dollars.

Seminar package rates*

No. of days	No. of delegates				
	1	2	3	4	Pay for 4 Send 5
1 day	A\$2000	A\$3700	A\$5300	A\$6700	A\$8000
2 days	A\$4000	A\$7400	A\$10100	A\$13400	\$16000
3 days	A\$5500	A\$10100	A\$14500	A\$18500	\$22000
4 days	A\$7000	A\$12900	A\$18500	A\$23500	\$28000

2

Fill in attendee details - Please complete in BLOCK capitals

	Mr/Mrs/Ms	First name	Last name	Job title	Telephone (inc. country code)	Email	Seminar number/s
1							
2							
3							
4							
5							

3

Signed by approving manager - To process the booking this needs to be completed in full

NB. Signatory must be authorised to sign on behalf of contracting organisation.

Name:	Job title:	
Organisation name:	Industry:	
Email:		
Address:	Postcode:	
Country:	Telephone:	Fax:
<input checked="" type="checkbox"/> Authorising signature: (Mandatory)	<input type="checkbox"/> Yes, I've read and understood Runge's Terms & Conditions listed below	

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Provide us with your - Invoice contact & payment details

Payment is required BEFORE the course date. Course details will be sent to you once payment has been received.

Contact person for invoicing:	Job title:				
Telephone:	Fax:				
Email:					
<input type="checkbox"/> Please debit my credit card	Amount: \$	AUD	<input type="checkbox"/> Visa	<input type="checkbox"/> Master Card	<input type="checkbox"/> American Express
Cardholder's name:	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"/>				
Cardholder's signature:					
<input type="checkbox"/> Bank transfer - Commonwealth Bank BSB: 064-011 Account No: 10041927 Swift code: CTBAU2S Ref: HK Training					
<input type="checkbox"/> Bank cheque made payable to Runge Ltd in Australian dollars.					

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Send us your completed form

3 Easy Ways!

Email: mcalderr@runge.com.au

Fax: (+61) 7 3100 7297

Post: Runge Ltd, GPO Box 2774, Brisbane QLD 4001, Australia

Terms & Conditions

Cancellation Policy: If you cannot attend personally, a substitute delegate is welcome to join this course in your place - for no extra charge. Should you (or a substitute) be unable to attend, we will promptly refund your fee less a service charge of 10%.

Condition: You must inform us in writing 30 days or more before the start date of this course. No refunds are possible for cancellations received less than 30 days before the course. Instead you will be issued with a 50% Discount Training Voucher, which entitles you (or a nominated colleague) to attend a public course arranged by Runge Training within the next 12 months.

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IN-HOUSE / CUSTOMISED TRAINING OPTIONS

Runge can develop and deliver customised in-house programs to suit your specific requirements

Advantages for your organisation:

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

Other mining related seminars could be developed and delivered on request. Runge can work with you to meet your specific training requirements. Please contact Margaret Calder on +61 7 3100 7200 or email mcalderr@runge.com.au.