PROFESSIONAL DEVELOPMENT COURSE

COAL SEAM GAS RESERVOIR ASSESSMENT

02-03 February, 2012 Brisbane | 29-30 May, 2012 Brisbane

"Participants will learn the basics of CSG Reservoir Assessment through this unique experiential course"

INTRODUCTION

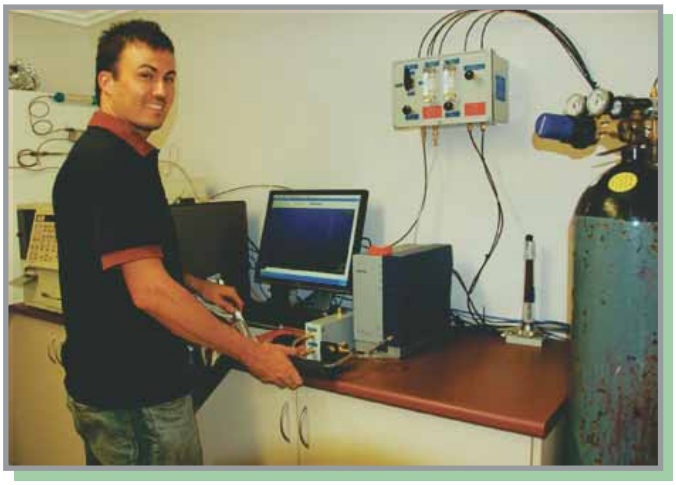
The aim of this course is to provide a comprehensive understanding of the basic properties of coal seam gas reservoirs. As a result of attending this course participants will have a foundation from which to assess and interpret information as a basis for coal mine gas management, coal seam gas production, design and optimisation.

WHO SHOULD ATTEND?

This course is recommended for staff involved in exploration, coal mine gas management and gas utilisation. Participants typically include geologists, mining engineers, mine planning engineers, petroleum engineers, technical services managers, operational staff and service providers. It is also suitable for anyone interested in understanding the fundamentals of coal seam gas management and gas production.

PRE-REQUISITE SKILLS

Some exposure or knowledge of underground mining or coal bed methane is essential.



LEARNING OUTCOMES

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

- Appreciate the contrasting properties of coal seam gas reservoirs
- Understand key drivers underpinning coal mine gas emission and coal seam gas production
- Understand the principles of gas reservoir assessment from measurement to analysis and application
- Consider factors that influence gas reservoir size and uncertainty
- Understand the principles of designing and implementing a gas testing program

DELIVERY METHOD

Interactive classroom-style delivery with focused workshops.

COURSE CONTENT

Module 1: Overview

- What is coal seam gas - a hazard and a resource?
- History of coal mine gas management and commercial extraction
- Where are coal seam gas reservoirs located?
- Future trends

Module 2: Coal Geology

- Coal formation
- Coal characteristics
- Reservoir variability
- Coal Seam Geometry

Module 3: Gas Reservoir Geology

- Gas generation, storage and retention
- Gas content in Australian Coals

Module 4: Gas in place

- Parameters
- Proximate analysis and relative density
- Net coal
- Gas content, composition/quality
- Sampling
- Reporting bases
- Gas content gradients and domains
- Gas resource
- Uncertainty

Module 5: Gas Deliverability

- Gas saturation
- Permeability

Module 6: Applications Overview

The purpose of this module is to present an overview of the practical applications of gas reservoir assessment including the following:

- Designing a testing program
- Gas reservoir modeling
- Coal mine gas emission
- Gas drainage and extraction
- Outburst prevention
- Gas production

GeoGAS runge

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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.

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PROFESSIONAL DEVELOPMENT

DATE

- ❑ 02-03 February, 2012 Brisbane Australia
- ❑ 29-30 May, 2012 Brisbane Australia

VENUE

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

TIME

8:30 AM - 5:00 PM

Course attendance is limited to a maximum of 25 people.

YES! PLEASE REGISTER ME FOR COAL SEAM GAS RESERVOIR ASSESSMENT

❑ 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

❑ Bankcard	❑ Mastercard	❑ Visa	❑ American Express
Name on Card :		Expires on : /	
Card Number :			

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.

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