

SGD 2643 for
2
Participants
or More

INDUSTRY REQUEST!

COAL STOCKPILE MANAGEMENT & SYSTEMS

Solidifying your knowledge on stockpile management and stepping into effective stockpile management systems

26 - 27 MARCH 2018, KUALA LUMPUR, MALAYSIA

LEARNING OUTCOMES

Understanding stockpiles

Evaluate the economics and efficiency of stockpiling systems

Examine the method of stacking onto stockpiles

Identify the different types of stockpile systems

Calculate capital and operating costing issues relating to stockpile design

Build stockpiles to meet design criteria

Expert Course Faculty Leader

RICHARD ANDERSON

**Bachelor of Engineering (B.E.)
Chemical Engineering**

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About this Training Course

Managing your stockpile effectively can be a daunting task when you have to consider all the factors that play a major part in it. This can be especially difficult when you have considered the environmental impact, quantity vs. quality issues and the financial implications of your stockpile. Thus, organisations need to manage their stockpile effectively to ensure that they get the optimal grade from their stockpiles to ensure that their clients get the finest quality. Organisations need to take into consideration Occupational Health and Safety issues that goes hand in hand with managing your stockpile effectively.

Organisations need to decide on the best design principles for their stockpile to maintain the good quality of their stockpile. They need to consider the environmental impact their stockpiles have and how to minimize their footprint. The blending and grading of your material needs to be assessed to ensure that you can supply a high quality product, but also sell your product at a optimum price. Monitoring your stockpile for hot spots and contaminated areas will not only improve the quality of your stockpile, but will ensure a safe working environment for your employees.

Learning Outcome

- Building your stockpile to suit the requirements of your organization
- Considering the environment when managing your stockpile
- Evaluating your stockpile to ensure that the tonnage does not affect your quality
- Maximizing the output of your stockpile through effective management
- Safeguarding your stockpile against airborne contaminants that could eat into your organisation's profit
- Designing measures to avoid spontaneous combustion of your coal stockpile

Who Should Attend

- Raw Material Managers
- Pit and Assistant Pit Superintendents
- Plant Managers
- Metallurgical Managers
- Logistics and Operations Managers
- Stock and Quality Co-ordinators
- Mining Engineers
- Environmental Managers
- Production Manage
- Policy and planning officers

This training course has a limited attendance for up to 20 participants only.

Sessions commence at 9am on all days, with short intervals at 10.30am and 3.30pm respectively.

Refreshments will be provided in the short intervals.

Lunch will be provided at 12:30pm for 1 hour. Sessions will end at 5pm on all days.

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2 Day Course Outline

DAY 1

Session One

- Solidifying your knowledge on stockpile management and stepping into effective stockpile management systems
- Understanding what are stockpiles and why you need them in your organisation
- Comparing the various types of stockpiling methods and how they are designed
- Evaluating the economics and efficiency of stockpiling systems and configurations to be employed
- Achieving an integrated bird's eye view necessary to optimise the stockyard as a whole
- Group Activity: Practical examples of stockpile planning and implementation to compare and contrast ways of problem solving

Session Two

- Working with the mechanics of stockpiling
- Examining the method of stacking onto stockpiles
- Studying the methods used for stockpile reclamation that works for your company's condition
- Selecting the right methods to ensure product quality can be maintained within specification tolerances

Session Three

- Adopting and applying the appropriate stockpile blending philosophy that works for you
- Dealing with product specifications and tolerances and their impact on mine production
- Measuring quality parameters and limitations in preparing product stockpiles
- Selecting the correct quantity and grade of material and use appropriate blending techniques to achieve the required blend
- Setting production targets and the impact it has on stockpile blending
- Group Exercise: Assessing the various challenges encountered in coal blending and the solutions you can adopt to maximise consistency to the benefit of customers, internal as well as external

Session Four

- Constructing an effective stockpile design strategy and analysing your stockpile preparation
- Identifying the different types of stockpile systems available for your organisation

- Determining the best location for stockpiles and the stockpile size
- Calculating capital and operating costing issues relating to stockpile design
- Auditing and reviewing stockpile systems to monitor operations effectively
- Facing the various logistical issues relating to stockpile design
- Establishing a stockpile pad for effective stockpile management
- Building stockpiles to meet design criteria
- Choosing the right equipment for effective stacking and reclaiming
- Case Study: Developing the stockpile plan by using a computer simulation programme. We will discuss the most modern / state of the art methodology of stockpile construction that can be used to maximise consistency of the product

DAY 2

Session One

- Analysing and harnessing cost controls for stockpile management while simultaneously looking at improving the quality of your stockpile.
- Controlling operating costs to maximise profitability
- Highlighting the operating drivers influencing operating costs
- Balancing operating costs with stockpile best practices that you have adopted
- Understanding the mine quality grades and generating a forward planning approach to stockpiling
- Improving profitability by creating a specification product using non specification feed stocks
- Case Study: Discussing practical stockpile management strategies and industry best practices to improve your stockpile management approach by controlling cost and improving stock quality

Session Two

- Factoring in the physical issues relating to stockpile management and taking effective measures to counter them
- Determining the change of stock quality characteristics as a result of stockpiling
- Calculating and studying the potential of size degradation in stockpiles
- Dealing with materials that generate acid drainage or are affected by sulphide oxidation
- Minimising the potential of spontaneous combustion: Analysing cause factors, incorporating prevention and mitigation measures and undertaking audits and gap analyses

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- Case Study: Mine mapping – Using Aerial surveys for determining stockpile and pit volumes

Session Three

- Confronting safety and environmental issues related to stockpile and suppressing its impact
- Taking control of traffic management surrounding your stockpiles
- Implementing proper lighting and signage issues as well as physical barriers on and around stockpiles
- Controlling your stockpile dimensions
- Planning and scheduling operations requiring airborne dust suppression
- Eliminating, suppressing and minimising airborne contaminants
- Utilising waste water disposal areas and capturing airborne dust with water sprays in areas with little air turbulence
- Group Activity: Benchmarking your organisation's performance to help you achieve successful stockpile conditions in a range of terrains and climates

Session Four

- Looking at stockpile reconciliation and on-line stockpile management methods
- Investigating and applying methods of production monitoring
- Developing and using stockpile survey procedures
- Establishing bulk density factors for stockpile reconciliation
- Getting to know the types of commercially viable on-line tracking systems
- Enabling your organisation to control the principles used by on-line tracking systems

ABOUT YOUR EXPERT

Richard Anderson has been working in the coal industry for over 35 years after completing a Degree in Chemical Engineering from the University of Newcastle, Australia in 1980. He has gained extensive practical experience in coal handling, blending and transportation while working in a production environment at several coal mines in the Hunter Valley region and has adapted this practical approach when working on consulting projects.

The balance of experience between production and consulting has allowed Richard to develop practical training courses that have been very well received by participants and company management. Courses he has prepared have been designed for coal preparation operators, dense medium cyclone operators and coal quality managers. Richard has also lectured at both the Advanced Coal Preparation and Basic Coal Preparation courses co-ordinated by the Australian Coal Preparation Society. In Indonesia he has provided training courses to various coal mining companies in topics including coal quality, coal preparation and coal utilisation.

Some of the companies that Richard has provided consulting support relating to stockpile management include:

- Bumi Resources – Kaltim Prima Coal, Arutmin, Sungkai
- Thiess Mining
- Berau Coal
- Oakbridge Mining
- Churchill Mining
- Stratford Coal
- IBU Coal
- Gunnedah Coal
- Multi Resources Indonesia
- Wambo Mining
- Howick Coal
- Lemington Mine
- Port Waratah Coal Services
- Madhucon
- Kideco
- Bulga Coal Management (Saxonvale Coal)

Prior to PT Rizavindo Java, Richard has held various positions in many related organisations such as:

- Principle Coal Quality Engineer – PT SMG Consultants
- Business Development Manager – PT Marichi Luckindo
- Business Development Manager – PT Barata Energy
- Coal Technology Manager – PT Multi Resources Indonesia
- Technical Advisor – PT Sucofindo
- Technical Marketing Manager – CCI Australia
- Senior Coal Preparation Engineer – ACIRL
- Production Manager & Coal Technology Manager – Bulga Coal Management
- Metallurgist – BHP Saxonvale Mine
- Metallurgist – BHP Newcastle Steelworks CPP
- Traineeship – BHP Newcastle Steelworks

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	PER PARTICIPANT	2 PARTICIPANTS OR MORE	IN-HOUSE TRAINING
2 Day Programme	SGD 2, 843 Per Participant	SGD 2, 643 Per Participant	Guaranteed Minimum 40% Off Normal Price

ATTENDEE DETAILS

Name Job title

Tel Department Email

Name Job title

Tel Department Email

Name Job title

Tel Department Email

Name Job title

Tel Department Email

Name Job title

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COMPANY DETAILS

Organisation name Industry

Address

Postcode..... Country.....

Tel Fax.....

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Payment is due in full at the time of registration. Full payment is mandatory for event attendance. I agree to PowerEdge Pte Ltd. payment terms

* GST- Exclusive price is only applicable for overseas corporate customers subject to qualifying conditions.

CANCELLATIONS & SUBSTITUTIONS

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4 ways to Register

- 🌐 Online Web Registration
- ✉ info@poweredgeasia.com
- ☎ (65) 6741 9927
- ☎ (65) 67478737

OTHER TRAINING

- ✓ [Coal Supply Chain](#)
- ✓ [Commissioning and Start Up Activities of Coal Power Plants](#)
- ✓ [Ultra Supercritical Power Plants](#)
- ✓ [Thermal Plant Performance Testing](#)

ON SITE TRAINING

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