



Coalfield Geology Council of New South Wales

Coal Quality Workshop

26TH AND 27TH NOVEMBER 2019

ALS Coal Services - Mayfield West

Dates: 26th and 27th November 2019
Location: ALS coal services
2 Spit Island Close,
Mayfield West NSW
Cost: \$350 per person
Session times: Day 1: 8:30am to 4:30pm
Day 2: 8:30am to 4:00pm



Details

The training will be provided by Adrian Reifenstein - Business Manager, Coal Technology and Exploration at ALS.

This course will be conducted at the ALS Newcastle (AcTest) laboratory's training room. This course will comprise 1.5 days of lectures interspersed with exercises and training videos. An additional 0.5 day will be given over to a tour of the ALS Newcastle coal laboratory.

Morning tea, lunch and afternoon tea will be provided.

Please see over page for further details on course modules & PPE requirements

Course outline

Part 1 provides a framework for understanding coal from a rank, type and inorganic impurities perspective.

Part 2 provides an overview of the correct process for measuring coal quality. This includes a review of the theory and practice of correct sampling and sample preparation. It provides an overview of a broad range of coal analytical tests and discusses their applicability and accuracy. This course focuses on coal test required by geologists. It also provides an overview of the processes that laboratories perform to ensure that they laboratory systems are controlled.

Part 3 provides a brief overview of the coal beneficiation processes occurring in a coal mine and a coal preparation plant and links these processes to coal core exploration programs.

Part 4 links coal quality to end-use performance in coal-fired power-station and iron-making processes and ultimately the price coal achieves in the marketplace.

Part 5 provides a half day tour of the ALS laboratory



To register: <https://www.eventbrite.com/e/als-coal-quality-course-tickets-77773427415>



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Prerequisites

There is no prerequisite for the course. However, a tertiary education with a science or engineering background and exposure to the coal industry for 1-2 year will assist with terminology and context.

PPE

PPE will be provided for the laboratory tour. Closed in shoes, long sleeve shirt and long pants are recommended for the second day (laboratory tour). Steel capped boots are not required.

Modules

Part 1

- Introduction to Coal (1.5 hr)

Part 2

- Coal Sampling Theory and Practice (2.0 hr)
- Coal Sample Preparation (0.25 hr)
- Coal Analytical Tests (2.0 hr)
- Laboratory Process Control (0.75 hr)

Part 3

- Mining and Coal Preparation Practices impacting on Product Coal Quality (1.0 hr)
- Large Diameter Core Programs simulating Product Coal Quality (1.0 hr)
- Coal Sales Process (1.0 hr)

Part 4

- Coal Utilisation in Power-stations and Steelworks (1.5 hr)

Part 5

- Tour of the ALS laboratory (0.5 day)



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