

achieving excellence together



## SAMPLE DEVELOPMENT & PREPARATION IN ANALYTICAL LABORATORIES

### COURSE CONTENT

#### What is a sample?

#### Sample preparation - why and how?

##### Crushing

- Reducing the sample particle size
- Care and maintenance of crushers
- Potential sources of sample contamination

##### Methods of reducing the sample bulk

- Riffing (Jones)
- Cone and quartering
- Spinning riffler

##### Drying

- Drying ovens
- Care and maintenance of drying ovens

##### Pulverising

- Use of a pulveriser
- Maintenance of a pulveriser
- Sources of contamination

##### Splitting

- Methods of splitting a sample
- Ensuring a representative sample from splitting
- Sources of contamination

##### Particle size analysis

- Use of screens and sieves
- Care of screens and sieves
- Calculating size fractions

##### Basic good practices in sample preparation area

- Housekeeping
- Functional equipment
- Labelling and marking of containers
- Health and safety

##### Quality assurance and quality control in sample preparation area

- Particle size, dust loss, crushing and pulverizing efficiencies
- Control charts
- Maintenance schedules

(Practical session to be discussed with lab management)

### Who should attend?

- Laboratory managers and supervisors
- Laboratory technicians
- Sampling technicians
- Laboratory equipment suppliers
- Quality and technical managers/directors

# BOOKING & REGISTRATION

## SAMPLE DEVELOPMENT & PREPARATION IN ANALYTICAL LABORATORIES

COMPLETE THE FORM TO RESERVE YOUR PLACE AND EMAIL IT TO [admin@libertypro.co.za](mailto:admin@libertypro.co.za) or call +27 74 218 6757

	Fee per delegate each excl Vat
ONLINE	R3999
PUBLIC	
IN-HOUSE	From 7+ delegates

### DELEGATE DETAILS

DELEGATE NAME:		DELEGATE NAME:	
DESIGNATION:		DESIGNATION:	
EMAIL:		EMAIL:	
DELEGATE NAME:		DELEGATE NAME:	
DESIGNATION:		DESIGNATION:	
EMAIL:		EMAIL:	

### COMPANY DETAILS

COMPANY NAME:	
PHYSICAL ADDRESS:	
BUSINESS POSTAL ADDRESS:	
POSTAL CODE:	
TEL NUMBER:	

### PAYMENTS

Please email a copy of the bank transfer or deposit slip payments

#### Account Details:

BANK: **STANDARD BANK**  
ACCOUNT NAME: **LIBERTY PRO**  
ACCOUNT NUMBER: **10193466919**  
BRANCH: **JOHANNESBURG**  
BRANCH CODE: **051001**  
SWIFT CODE: **SBZA ZA JJ**

### AUTHORISATION

Signatory must be authorized to sign on behalf of contracting organization.

NAME: \_\_\_\_\_

POSITION: \_\_\_\_\_

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

EMAIL: \_\_\_\_\_

DATE: / /

### TERMS AND CONDITIONS

**CANCELLATIONS:** By completing this registration form, the client hereby agrees that **LIBERTY PRO PTY** will not be able to mitigate its losses for any less than 50% of the total contract value. Cancellations must be received in writing three weeks prior to the event. Only cancellation made in writing and addressed for the attention of the Chief Financial Officer will be recognized by **LIBERTY PRO**. Cash alternatives will not be offered although delegate substitutions are welcome any time. Thereafter, the full workshop fee is payable. If for any reason **LIBERTY PRO** decides to amend this workshop, we are not responsible for covering airfare, hotel or other costs incurred by registrants. In the event that **LIBERTY PRO** cancel the event, **LIBERTY PRO** reserves the right to transfer this booking to another workshop to be held in the following six months, or to provide a credit of an equivalent amount to another workshop in the same sector within the following six months.

**INDEMNITY:** should for any reason outside the control of **LIBERTY PRO** the venue or speakers change, or the event be canceled due to act of any terrorism, extreme weather conditions, industrial action **LIBERTY PRO** shall endeavor to reschedule but the client hereby indemnifies and holds **LIBERTY PRO** harmless from any costs, damages, and expenses including attorney fees, which are incurred by the client. The construction validity and performance of this Agreement shall be governed in all respects by the laws of Republic of South Africa to the exclusive jurisdiction of whose courts the parties hereby agree to submit.

### PAYMENTS ARE REQUIRED WITHIN 5 DAYS OF INVOICE

Please note: All public course fees include lunch, refreshments (non-alcoholic) and conference/workshop documentation. FEES DO NOT INCLUDE ACCOMMODATION, AIRFARE OR TRANSFERS. Delegates should make arrangements well in advance and may call us should they require assistance on making such bookings.