Refractory Training Course

REFRACTORIES FOR INDUSTRIAL USERS

PRESENTED BY:

CANNON & HANCOCK

4th – 8th May 2020

at

Three Rivers Lodge, Vereeniging
Gauteng, South Africa

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South Africa

THE PROBLEM

Refractories are a critical part of the operation of most high temperature industrial processes and also play an essential role in many other industries. They are frequently a major cost item both in general maintenance and the unscheduled downtime of production units arising from premature refractory failure.

The depth of the subject is demonstrated by the three-year degree course in refractory technology, which is offered by universities throughout the world. However, the majority of refractory purchasers have had little, if any, formal training in refractory technology. Numerous books and technical papers are available, but none have been written specifically for refractory users.

Refractory technology is changing so rapidly, and the price of refractory materials is continuing to escalate so rapidly, that all users must conduct regular value audits on their refractory purchases.

WHY IS THIS COURSE DIFFERENT ?

We will equip delegates with the necessary skills to ***assess the risk of refractory failure*** and to examine design concepts.

- purchase specifications
- materials
- installation
- heat-up
- operation

WHO SHOULD ATTEND?

The course is a necessity to people who have a responsibility for refractory purchases, installations and who are involved in a production function. The latter will find the programme of great value in understanding the relationship between refractories and process operations.

- ✓ Maintenance Engineers
- ✓ Buyers
- ✓ Metallurgists
- ✓ Management
- ✓ Refractory Supervisors
- ✓ Refractory Foremen

Over 1100 delegates have attended the Training Course in a period of fifteen years:

- ✓ Engineers
- ✓ Installers
- ✓ Manufacturers
- ✓ Raw Material Suppliers
- ✓ End Users

If you would like more information on the practicality of the course, please contact us and we will provide a list of the previous delegates for you to contact or visit: www.refractorytraining.com

REFERENCES

"Best ever course I've attended to date" – Scaw Metals

"I have been able to understand the practical aspects from a different point of view" – Columbus Stainless

"General overview of the course was educational and really enjoyed every minute of it" – Intocast

"Great course, with a great way of lecturing and putting the message across"– PFG Building Glass

"Very good course that all technical people should attend. Real life examples which are invaluable to industry. Many things to check up on & think about for the future" - Unknown

"Best presentation that I have attended. Presenters were excellent" – Tronox

"Very knowledgeable & approachable instructors" – Arelor Mittal VDB

PROGRAMME

MODULE 1 - DAY 1 (4th May) Conference Centre

- ***Tea /Coffee & Registration (07h45 - 08h30)***
- Introduction
- Castables
- Bricks & Mortar
- Installation – skills & equipment

LUNCH

- Plant Visits – Delegates visiting Monolithic Manufacturer (***Calderys***)

MODULE 2 - DAY 2 (5th May) Conference Centre

- ***Tea /Coffee & Registration (07h45 - 08h30)***
- Introduction
- World Industry Overview
- Basic Concepts
- Raw Materials

LUNCH

- Products
- Brick Quality
- Refractories Testing
- Thermal Conductivity Calculations
- *Case Study Team Allocation*

MEET AND GREET SESSION - SUNSET CRUISE ON THE VAAL RIVER

Sponsored opportunity for delegates to meet with industry participants

DAY 3 (6th May) Conference Centre

- Installation Concepts
- Anchors
- Videos – Installation Techniques

LUNCH

- Why Refractories Fail?

DAY 4 (7th May) Conference Centre

- Consistent Castables?
- Brick Construction
- Equivalent Concepts
- Group Work (1 hour)

LUNCH

- Presentation of case studies
- Installation: Cost vs Quality
- Questions

MODULE 3 - DAY 5 – PRACTICAL – (8th May)- 09h00 till 14h00 ACT Manufacturing

INSTALLATION TECHNIQUES AND MATERIALS

- Gunning
- Ramming
- Castables with poker vibrator

Brick Laying

- Mortaring and bricklaying bonds
- Good and Bad Techniques

Delegates will be participating in all practical activities and necessary PPE will be provided.

4 EASY WAYS TO REGISTER

1. By phone

(016) 971 2678 **Office (Mrs Kim Mason)**
083 275 8948 Darrol Biggs
International + 27 16 971 2678

2. By Post

Cannon & Hancock cc
P.O. Box 2705
Vereeniging
1930
Gauteng
South Africa

4. By e-mail

chlabs@mweb.co.za
Att: Mrs Kim Mason

REGISTRATION FORM

Full Names (for certificate purposes)	
I.D. / Passport No.	
Company	
Designation	
Company Postal Address	
Tel. No.	
Fax No.	
Cell. No.	
E-mail address	
Company V.A.T No:	
Order No:	

PAYMENT INFORMATION

Please ensure payment is made in full, on or before the day of the Training Course

			tick ☑
Registration Fee:	**Module 1** One Day (Refresher)	R 3 900,00	☐
	Module 2 Three Day (Theory)	R17 300,00	☐
	Module 3 One Day (Practical)	R 4 200,00	☐

Prices in SA Rand *excl. VAT*

- Special meal requests - Halaal ☐ **yes**
- Attend Sun Set Cruise on Vaal River at no cost? ☐ **yes** ☐ **no**

Note:

1/ ***Module 3, the practical day is limited to only the first 30 delegates***
2/ Module 3 can only be attended in conjunction with Module 2.
3/ Accommodation costs are not included in the course fee. However, on request special corporate rates are available at the Riviera on Vaal.
4/ Course fees include lunch and coffee and tea and course material.

Cheques payable to: Cannon & Hancock CC

Sponsors - Materials & Equipment

ACT Manufacturing
(Material Sponsor)

Calderys
(Plant Visit)

Burg Refractories

(Practical Venue, Pre-cast Shapes & Equipment)

Monolithic Installations

Refractory Construction and Maintenance
(Equipment & Skills)

JVBAILMAN

in partnership
with

SILICON

Rapid Arc Welding
Stud Welding Demonstration