



2KG TRAINING

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COMPRESSORS: DESIGN, OPERATION AND MAINTENANCE

Enhancing compressor uptime and reducing operating costs through best practices and effective maintenance

Presenter: Jan Fourie



Jan Fourie has more than 30 years' experience in the compressor industry with Electrical and Mechanical technical diploma and vast experience in various industries and disciplines.

The last 30+ years was spent with the largest compressor manufacturer globally, where Jan started as Technical Specialist, then National service manager. Thereafter became Business Manager in South Africa.

Through the years he conducted numerous trainings to technicians, sales organization, and multiple mining and industrial customers. He managed multiple large contracts and special engineered projects during his time

Jan was appointed in Chile, Australia and Sweden for several years where he acted as General Manager for the compressor business in the country, and gained vast global experience of the compressor industry

Number of days: 4

CPD Points: 4

LIVE VIRTUAL CLASSROOM

2KG Training Live Virtual Courses offer participants the same instructors, training systems, course materials, personal support, and face-to-face engagement with instructors and other participants that they would expect to find in a conventional classroom.

The Compressors Live Virtual Course brings participants together in a virtual classroom, where they receive training from an expert via a live video link. Participants are interconnected via audio and video, enabling them to interact both with the instructor and with their classmates. Learners can speak to their instructor at any time to ask questions, request assistance, and instructors can provide hands-on support.

AIM OF THE COURSE

- Evaluating and augmenting the efficiency of compressor operation resulting in reduced energy consumption
 - Improving the knowledge of best practices and troubleshooting techniques to avoid and mitigate compressor failures
 - Defining the technical features and vulnerabilities of dynamic and positive displacement compressors
 - Identifying the criteria that can assist in cost-effective compressor selection
 - Using appropriate maintenance technologies to maximize compressor reliability and availability
 - Benchmarking compressor performance against industry standards
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WHY YOU CANNOT MISS THIS COURSE

Compressors can be one of the most mechanically complex pieces of machinery. The industry is currently struggling with various issues, ranging from selection, operation, and high maintenance expenditures to production stoppages caused by compressor downtime. In addition, due to the rising energy costs, there is an increased demand to reduce energy wastage and greenhouse emission in compressor operation.

The experience gained from compressor maintenance and troubleshooting will help you select the right compressor based on your operating or design conditions. It will also enhance the life cycle of your compressors, increase energy efficiency, reduce ongoing maintenance costs and prevent failures. The practical insights delivered at this training will assist in troubleshooting issues and challenges in compressor operation and maintenance along with exposure to key techniques and predictive maintenance tools that will help you significantly increase its performance, reliability and availability.

Compressor failures can cause significant problems from delays in production to the possible shutdown of the whole plant. However, good compressor operation and maintenance can cost-effectively maximise compressor life expectancy; while improving its reliability and availability to meet output requirements.

This hands-on course will give a practical introduction to control, operation, maintenance and troubleshooting of centrifugal and positive displacement compressors. The key issues which will be addressed in this training are: How to maximize compressor output, increase its life cycle and minimise downtime.

WHO MUST ATTEND

Mechanical Engineers, Maintenance Engineers, Reliability Engineers, Electrical Engineers, Professional Engineers, Operations Managers, Maintenance Managers, Project Managers, Contract Managers, Asset Managers, Technical Managers

From Industries such as:

Oil & Gas, Mining, Energy & Utilities, Chemicals & Petrochemicals, Food & Beverage Manufacturing, Agriculture

COURSE OUTLINE

UNIT 1

- Fundamentals of compressed air
- Introduction to compressors
- Compressor types and operating principles
- Compressor regulation
- Compressor flow / Air and Oil

UNIT 2

- Compressed Air quality
- Drying compressed air
- Dryer types and operating principles
- Compressor installation
- Compressor room layout and ventilation
- Air-net design

UNIT 3

- Compressor dimensioning
- Compressed Air energy savings

UNIT 4

- Compressor Maintenance
- Maintenance strategies
- Parts assessment
- Skill test & assessment

COMPRESSORS: DESIGN, OPERATION AND MAINTENANCE

Registration Form

Number of days: 4

CPD Points: 4

How to register for the course:

1. Complete this registration form and fax it to Phindi Chauke: Tel: 011 325 0686 Fax: 011 325 0488 Email: Phindi@2kg.co.za
2. Acknowledgement will be emailed to you.
3. Final confirmation and details will be faxed or emailed to you approximately 7 days before the commencement of the seminar.

Cancellation Policy:

By signing and returning the registration form, the authorizing signatory on behalf of the stated company is subject to the following terms and conditions.

- All cancellations must be received in writing
- Any cancellations received less than 7 working days before the date of the event, the full fee will be payable and the delegate can attend the next scheduled training course.
- In case of insufficient applications for the workshop 2KG reserves the right to cancel the seminar. Applicants will be informed and all fees will be refunded immediately.

Delegate information:

Title: _____ Surname: _____ Name: _____

Full Company name: _____ Job Title: _____

Postal Address (to which invoice must be sent): _____

Code: _____ VAT number: _____

Tel: () _____ fax: () _____

Cell: _____ Email: _____

Contact/ Accounts information:

Title: _____ Surname: _____ Name: _____

Tel: () _____ fax: () _____

Cell: _____ Email: _____

Please tick the course that you would like to attend:

Conventional Classroom

☐

Currently Unavailable
A date to be advised
R18 480.00 (excl VAT)

Live Virtual Classroom

☐

19 – 22 October 2026 (4 Days)
Live Virtual Classroom
R14 784.00 (excl VAT)

I have read and agreed to all the conditions of registration as stipulated in this brochure.

Signature

Date

For more info and to register contact Phindi Chauke on tel: 011 325 0686 or cell: 071 125 6188 and email: phindi@2kg.co.za or visit www.2kg.co.za