

The Basics of Steam

1-Day Training Course

**R2,499 excl. VAT
per delegate**

**Delivered on
site nationally,
minimum of 5
delegates**

Overview

Operators, artisans and technicians who have a sound knowledge of the systems they are responsible for are invaluable to any manufacturing business. Knowledgeable personnel will be empowered to make decisions and solve problems on-shift, leading to improved performance and efficiency.

This one-day course equips personnel with basic knowledge around steam systems and their operation. Best practices for steam system operation are also explored, with emphasis placed on safety and efficiency. The course can be customised to suit the steam system employed on your site and its components.

Who Should Attend & Why?

This solution is targeted at operators, artisans, technicians and junior engineers who are responsible for the running and maintenance of steam systems on a day-to-day basis.

This course includes:

- Basic steam theory presented in an easy-to-understand format by an expert
- Simple explanations of steam systems and their operation
- Lots of examples/analogies to illustrate important points and concepts
- Discussions as regards specific steam-related challenges experienced on your site

The Basics of Steam Systems

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Your Facilitator



Craig van Wyk (B.Sc.(Eng.), MBA) is a Chemical Engineer and the founder of VWG Consulting. He has over 20 years of industrial experience in a wide range of industries. Craig has an in-depth knowledge of steam systems, being a UNIDO-accredited National Steam Systems Expert and National Training Facilitator.

Craig began his career as a Technical Trainee at the South African Breweries Ltd, after which he became a Process Engineer at SAB's Head Office in Sandton. After consulting to SAB's 7 breweries as part of this role, he joined Tiger Brands as a Process Engineer. Roles in production management at Tiger Brands and SAB followed, followed by a 3 ½ year period as Brewing Manager at the Chamdor Brewery. In 2005 Craig founded VWG Consulting, focusing on productivity and resource efficiency (energy, water, materials and waste) in the manufacturing sector. He has since gone on to complete projects on over 100 industrial sites across SA, many of which have involved steam systems. Craig consults, facilitates training, manages continuous improvement programmes and develops technologies as part of his role at VWG. He has conducted numerous steam system projects at sites across South Africa.

Topics Covered

Module 1: What is Steam & How do we use it?

Module 2: The Major Components in a Steam System & Their Purpose

Module 3: Important Operation, Safety and Efficiency Aspects of Boiler Management

Module 4: Important Operational, Safety and Efficiency Aspects of Steam Distribution

Module 5: Important Operational, Safety and Efficiency Aspects of Steam Use

Module 6: Important Operational, Safety and Efficiency Aspects of Condensate Recovery

Module 7: Understanding How All Aspects of a Steam System Fit Together



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Module 1

- Basic Steam Principles
 - Phases of water
 - Energy requirements for producing steam
 - Types of steam

Module 2

- Steam generation
- Steam distribution
- Steam end-use
- Condensate recovery

Module 3

- Best practices in boiler operations
- Boiler Safety
- Boiler Efficiency

Module 4

- Best practices in steam distribution
- Safety in steam distribution

Module 5

- Best practices in steam usage
- Using steam safely
- Using steam efficiently

Module 6

- Best practices for condensate recovery
- Safety considerations in condensate recovery
- Efficiency in condensate recovery operations

Module 7

- The steam system as a whole
- Steam system performance

The course fee covers:

- Facilitation
- Full colour, wire-bound training manual
- Light refreshments – meals to be provided by client site
- Travel costs for facilitator will be charged separately and are only applicable outside of Gauteng. Please contact us for a formal quote.