

# CHEMICAL PETROCHEMICAL





## OVERVIEW

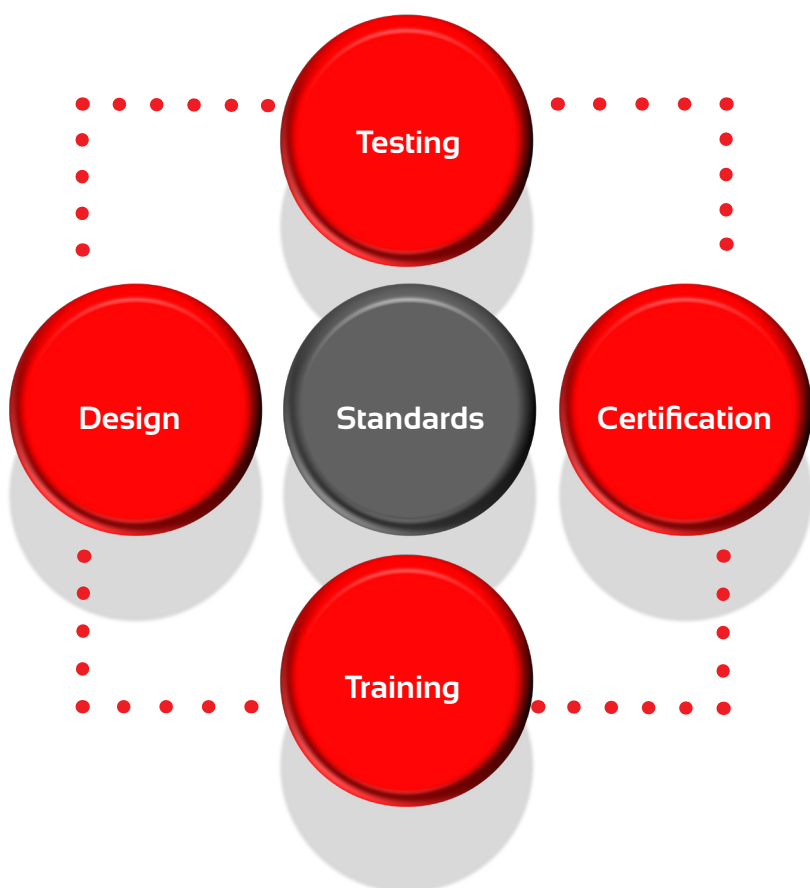
The chemicals industry is a key sector of the South African economy. It accounts for about 25% of the nation's manufacturing sales, and is the most developed of its kind in Africa. Chemical companies today face a challenging environment with a need to be both locally and internationally competitive

### Enhance your company's competitiveness with our quality edge

The SABS can help chemical companies respond to a number of industry-wide issues, including voluntary technical regulations, standards, and conformity assessment processes. We offer world class expertise to assist you to meet requirements of quality and safety that consumers, business, regulators and other stakeholder's demand of goods and services in this industry.

In the 70 years of our existence, we have grown an enviable reputation for integrity and excellence. We are industry leaders in offering solutions to assess conformity and compliance with standards through testing and certification. SABS offerings

#### SABS offerings:



# TESTING

SABS testing is performed in accredited laboratories in line with the strictest scientific protocols by the best technical experts in the country. We offer a unique combination of microbiological, biological and chemical testing laboratories. Our testing capability is the most comprehensive service of its kind in Southern Africa.

We test in accordance to accepted industry standards such as SANS (South African National Standards) and international recognised test methods, and are accredited to ISO 17025 by the South African National Accreditation System (SANAS).

Our testing laboratories play an important role in supporting South African manufacturing and exports by providing objective evidence that a product or service conforms to certain customer requirements or specifications.

## Our tests are performed in accredited laboratories in line with the strictest scientific protocols

Our testing laboratories include:

### Industrial chemistry laboratory

Our laboratory has extensive experience in testing all types of domestic and industrial cleaning products to ensure their performance and safety. We also ensure consumer safety by evaluating formulations and toxicity assessment of cleaning chemicals for the use in food industries such as detergents, disinfectants, water treatments chemicals and lubricants.

#### Related testing on products includes:

- laundry detergents
- bar and laundry soaps
- disinfectants
- hand dish washing liquid and industrial dish washing machine detergents
- multipurpose cleaners/degreasers
- car engine cleaners and electric equipment cleaners
- scouring compounds, oven cleaners, hand cleaners and toilet bowl cleaners
- cleaning chemicals for use in food industries
- disinfectants – detergents for use in food industries
- formulation and toxicity assessments of detergents and disinfectants used in food industries
- ball point pens, lead and coloured pencils, wax crayons, highlighters, and white or coloured chalks
- fire extinguisher powders
- polishes such as shoe polish, polymer floor dressing, floor polish, and furniture polish
- fire extinguisher powders, and
- polish strippers.

#### Microbiological analyses include:

- antiseptics
- liquid soap
- disinfectants
- surface swabs
- air-plates
- fuels
- animal feeds
- aluminium strips
- spore discs, and
- cultures.



## Paints and Sealants laboratory

The laboratory has extensive experience in testing of paints and sealants products to determine performance and quality. Testing procedures include analysis of physical properties and performance testing.

Related testing on products includes:

- road marking paints
- solvent-based decorative paints
- industrial coatings
- coatings
- industrial paints, and
- sealants.

## Rubber and Plastics laboratory

Our laboratory has extensive experience in testing various grades of rubber and plastics products. We test for strength and quality to ensure performance and safety of products towards their end-use, and perform these tests using a wide range of physical and mechanical techniques.

Related testing on products includes:

- plastic pipes and fittings
- conveyor belting
- polyolefins
- plastic bags
- foams,
- laminates, and
- all other forms of rubber and plastic.

## Petroleum laboratory

Our laboratory has extensive experience in testing the quality of all types of petroleum products.

Related testing on products includes:

- automotive petrol
- diesel
- engine oil, base oil and turbine oil
- engine coolants / antifreeze
- jet fuel and heavy fuel oil, and
- bitumen and creosote.

### Proficiency Testing Scheme

The petroleum laboratory also leads the national Measurement Assurance Programme (MAP) scheme. The scheme is aimed at improving the quality system in the petroleum industries.

## CERTIFICATION

Our certification services are relevant business solutions that ensure that companies and the South African economy remain competitive. SABS certification opens up markets and means that you can rest assured the product or service is the best for your consumers.

The SABS is one of the most experienced certification organisations in the world. We offer both product and systems certification schemes. Product certification is a process that culminates in our customers having the right to put the well-known SABS Mark on their products. This Mark tells the market place that the product has been found to meet all the requirements of the standard concerned and that the process used to make the product has been assessed to be under control, so that these products will continue to meet the requirements.

We also offer several quality system certification schemes like the SABS ISO 9001 Quality Management Certification Scheme, SABS ISO 14001 Environmental Management Certification Scheme, and OHSAS 18001.

### Our certification opens up markets and is a catalyst for confidence

Our work is undertaken by internationally recognised auditors who possess necessary industry related experience to guide your company through the certification process and implementation. Our certification solutions are recognised and Accredited by RvA (Raad voor Accreditatie) or South African National Accreditation System (SANAS).

#### Benefits of implementing our schemes include:

- enhancing customer satisfaction and ensuring regulatory requirements are met
- creating confidence in the supply chain
- emphasizing commitment to continual improvement
- involving people at all levels of the organization, and
- guiding strategic decision making of any organization.

#### Key areas of business we service in this sector include :

- chemical industry - solvents , soap powders, detergents
- rubber and plastics
- paints and sealants, and
- petroleum.



## **Our certification schemes for the chemical industry include:**

### **SABS Mark**

The SABS Mark Scheme is a powerful tool that reinforces your product's built-in-features. It strengthens your point-of-sale impact and gives your product greater credibility in the market place.

The SABS Mark Scheme ensures third-party certification and gives clear evidence that the product bearing the SABS Mark conforms to a specific South African or International standard. An ongoing quality management programme is an essential part of the Mark Scheme, it is a clear demonstration that your company is dedicated to quality management.

#### **Why is the SABS Mark certification important for your company?**

##### **The benefits include:**

- real point-of-sale differentiation (SABS brand), resulting in more sales and greater revenue
- reinforces your product(s) claims with your retailers, in government contracts, in tender submissions and in your export efforts
- the SABS Mark on imported product(s) increases market accessibility and acceptability. It also facilitates the compliance of imported product(s) to South African regulatory requirements, where appropriate, and gives consumers confidence in the quality and safety of the product(s) they purchase.

### **ISO 9001, Quality Management System**

The SABS ISO 9001 certification scheme is a third party system certification scheme. ISO 9001 Certification is suitable for companies of any size or sector seeking to improve their internal management and operational processes. Organizations all over the world have realised the benefits of implementing and maintaining quality management systems based on the ISO 9000 series of standards, since it improves the efficiency and effectiveness of an organisation's operation. ISO 9001 certification provides consistency in the quality of a product and/or service. It also drives an organisation to meet and exceed customer expectations, leading to an increase in market and shareholder value.

## Why is ISO 9001 certification important for your company?

This certification:

- enhances customer satisfaction and improved customer loyalty leading to repeat business
- increases revenue and market share obtained through flexible and fast responses to market opportunities
- integrates and aligns internal processes which will lead to increased productivity and results
- enhances business performance and better cost management
- provides confidence to interested parties as to the consistency, effectiveness and efficiency of the organisation
- increases credibility and competitiveness in the market
- provides consistency in the delivery of your product or service
- lowers costs and shortens cycle times through effective use of resources
- improves communication, planning and administration processes, and
- an independent audit demonstrates a commitment to quality.

## ISO 14001, Environmental Management System

The SABS ISO 14001 certification provides an organization with the elements of an effective environmental management system (EMS) that can assure stakeholders that international industry specific environmental standards have been met. This certification scheme is suitable for all types and sizes of organizations that have an impact on the environment. ISO 14001 places the emphasis on prevention and continuous improvement, while aiming at balancing environmental protection and prevention of pollution with socio-economic needs.

### Why is ISO 14001 certification important for your company?

An EMS assists the company to improve its business, reduce environmental risks and reduce the company's impact on the environment. In addition to this, an EMS:

- helps a company improve its occupational health and safety by creating a healthy working environment
- can assure customers of a company's commitment to responsible environmental management and legal compliance
- helps a company to maintain good public and community relations
- enhances the image and market share of the company
- improves cost control
- demonstrates a responsible caring attitude
- conserves input material and energy
- helps in the development and sharing of environmental solutions, and
- helps improve relations between government and industry.

## ISO 18001, Occupational Health and Safety Management System

The ISO 18000 certification enables the organization to control its risks and hazards in these areas to comply with legislation, reduce insurance premiums, reassure customers, improve performance and enhance the organization's public and marketing image.

OHSAS 18000 series is a management system standard against which an organization's occupational health and safety management can be assessed and certified. It aims to help an organization to implement an Occupational Health & Safety Management System (OHSMS), which will help to minimize the frequency of accidents in the workplace.



### Why is ISO 18001 certification important for your company?

This certification:

- ensures the company's Occupational Health & Safety risks and hazards are effectively controlled
- reassures customers
- improves operational and financial performance
- improves corporate image and credibility among stakeholders, regulators, customers, prospective clients and the public, and
- ensures legislative awareness and compliance.

## ISO 50001, Energy Management System

An Energy Management System (EnMS) is a systematic approach of dealing with the energy aspects in an organization. An EnMS is concerned with what an organisation does to minimise its effects on the environment through its operational activities. It is a 'tool' that enables companies to control the impacts of their activities, products or services on the natural environment in a disciplined and systematic manner.

Seeking certification of a company's energy management system provides additional security for its operations, access to markets and assurance that the system is audited accordingly and is internationally recognised.

### Why is ISO 50001 certification important for your company?

This certification:

- helps a company improve the well-being of its people by creating a energy conscious working environment
- assures customers of the commitment to responsible environmental management and legal compliance by a company
- can help a company to maintain good public and community relations
- enhances the image and market share of the company
- improves cost control by mitigating the impact of energy pricing through reduced use
- demonstrates a responsible caring attitude
- conserves input material and energy
- helps in the developing and sharing of energy efficiency solutions, and
- helps improve Industry-Government relations.



# TRAINING

The SABS Training Academy continues to bring to your doorstep quality education, training and development. We actively assist industry in creating an overall awareness of quality and the environment and provide a country wide service in training quality system auditors. All our courses are accredited by the Services SETA (Registration No. 99) in order to ensure relevant education, training and development that will maximize the return on your investment. In addition, some of our SABS ISO 9001 and SABS ISO 14001 courses are accredited by SAATCA. We have trained over 7000 people in SABS ISO 9001 already.

**Some of the courses we offer the chemical industry include:**

## **ISO 9001, including:**

- Introduction to the SABS ISO 9001
- Understanding and Implementation of ISO 9001
- 3rd Party and Lead Auditing of ISO 9001
- Internal Auditing of Management systems
- Additional Development Courses in the ISO 9001 series, such as:
  - Quality Awareness Workshop For Top Management - ISO 9001:2008
  - Quality Awareness Workshop For Shopfloor Workers - ISO 9001:2008
  - Integrated Management Systems.

## **ISO 14001, including:**

- Introduction to Environmental Management systems
- Understanding, Implementing of ISO 14001
- 3rd Party Auditing of ISO 14001
- South African Environmental Legal Requirements Applicable to ISO 14001
- Environmental Awareness Workshop for Top Management , and
- Environmental Awareness Workshop for Shopfloor Workers

## **ISO 50001, including:**

- Introduction to Energy Management systems (EnMS) – ISO 50001
- Understanding and auditing of energy management systems (EnMS)

## **OHSAS 18001, including:**

- Introduction to Occupational Health and Safety Management Systems (OHSAS)
- Understanding, Implementation of Health and Safety Management Systems
- Auditing Of Occupational Health And Safety Management Systems (OHSAS)
- South African Occupational Health and Safety Legal Requirements Applicable to SANS OHSAS 18001
- Additional Development Courses in the ISO 18001 series, such as:
  - Top Management Awareness (OHSAS), and
  - Shop Floor Awareness (OHSAS)

For the latest information on our courses and dates, please visit our website at [www.sabs.co.za](http://www.sabs.co.za).

# STANDARDS

The SABS provides a range of standards covering the demands of the chemical and petrochemical industry from the specifications that describe acceptable levels of performance through standard test methods to assess those parameters to quality management systems standards to assist organisations to deliver products and services of acceptable quality.

Our standards are a product of a distilled wisdom of people with expertise in their subject matter and who know the needs of the organisations they represent and the public at large. South African National Standards help companies thrive, attain a competitive edge and gain access to markets.

## Standards form the basis of quality

SABS technical committee members play a critical role in the drafting of standards. These committees comprises representatives of stakeholder groups that are interested in the outcomes of the committee as well as technical experts across the entire spectrum of expertise required to inform the content of a standard. More than 460 TCs are currently functional at the SABS, each of them being responsible for a different area of work.

SABS also ensure the South African industries participate in the development of international standards at ISO and IEC, regional standards at SADCSTAN and ARSO.

The SABS currently maintains a suite of over 7000 standards, These can be purchased on our SABS Webstore that offers standards users an excellent range of benefits, which includes:

- online purchase of South African National Standards (SANS)
- online purchase of ISO and IEC standards
- assistance in sourcing and purchasing of foreign standards
- a free Standards Alert Service that keeps you updated on the latest developments of your standards
- a secure platform with multiple payment methods to choose from such as bank transfer, credit card and instant EFT, and
- after sales support.

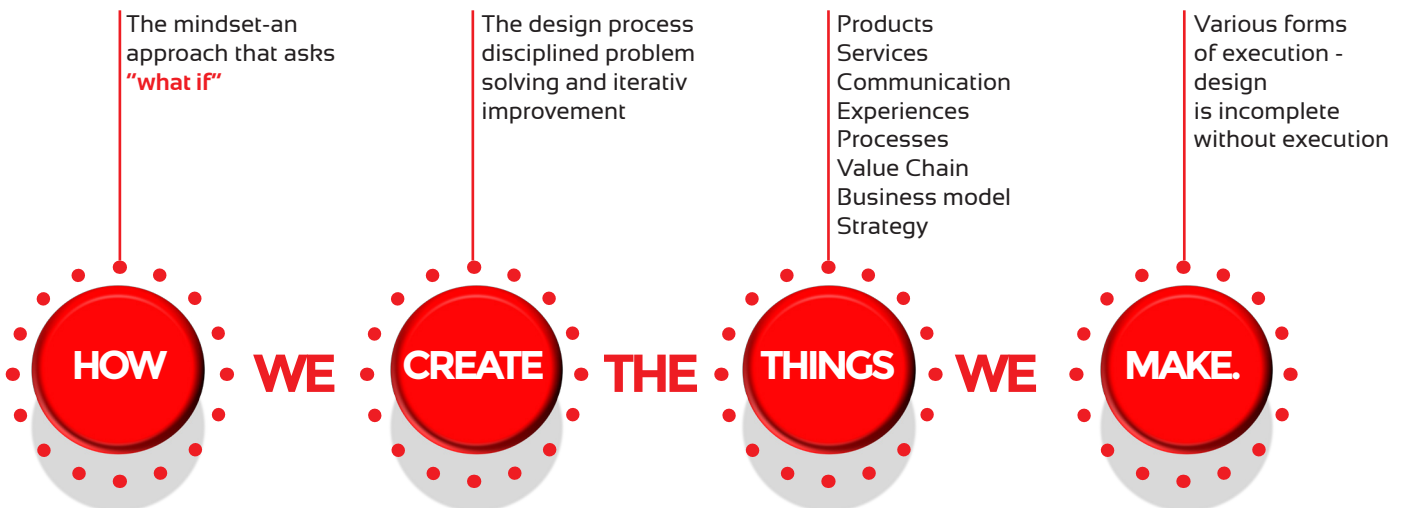
# DESIGN

The SABS Design Institute is focused on unlocking socio-economic value for South Africa through design. The institute does this by linking the public, business and government together to design the products, services and systems that create new socio- Economic value for South Africa and the world.

The Design Institute activates the national design system by:

- creating design awareness of the benefits of design with the wider public through exhibitions, awards, conferences, seminars and publications
- facilitating design support by implementing programmes to assist businesses and entrepreneurs to use design to improve their businesses, and
- nurturing a new generation of designers by supporting traditional design education as well as providing a variety of design related training courses aimed design entrepreneurs

## GOOD DESIGN PRODUCES THINGS WHICH ARE APPROPRIATE FOR THEIR PURPOSE



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