



CITY OF CAPE TOWN
ISIXEKO SASEKAPA
STAD KAAPSTAD

WATER AND SANITATION

The role of Standardization in driving Sustainable
Businesses

Head BI: Mario Carelse

02 JUNE 2022

Making progress possible. **Together.**

A DECADE OF QUALITY



2010



2012



2015



2020



2018

Why Standards matter?

- Standards make an enormous and positive contribution to most aspects of our Utilities.
- Standards ensure desirable characteristics of products and services such as quality, environmental friendliness, safety, reliability, efficiency and at an economical cost.
- **When products and services meet our expectations, we tend to take this for granted and be unaware of the role of standards. However, when standards are absent, we soon notice.** We soon care when products turn out to be of poor quality, do not fit, are incompatible with equipment that we already have, are unreliable or dangerous.
- When products, systems, machinery and devices work well and safely, it is often because they meet standards. And the organization responsible for many thousands of the standards which benefit the world is ISO.

Our Benchmarks



Our Standards



E TC
EKA
IAD

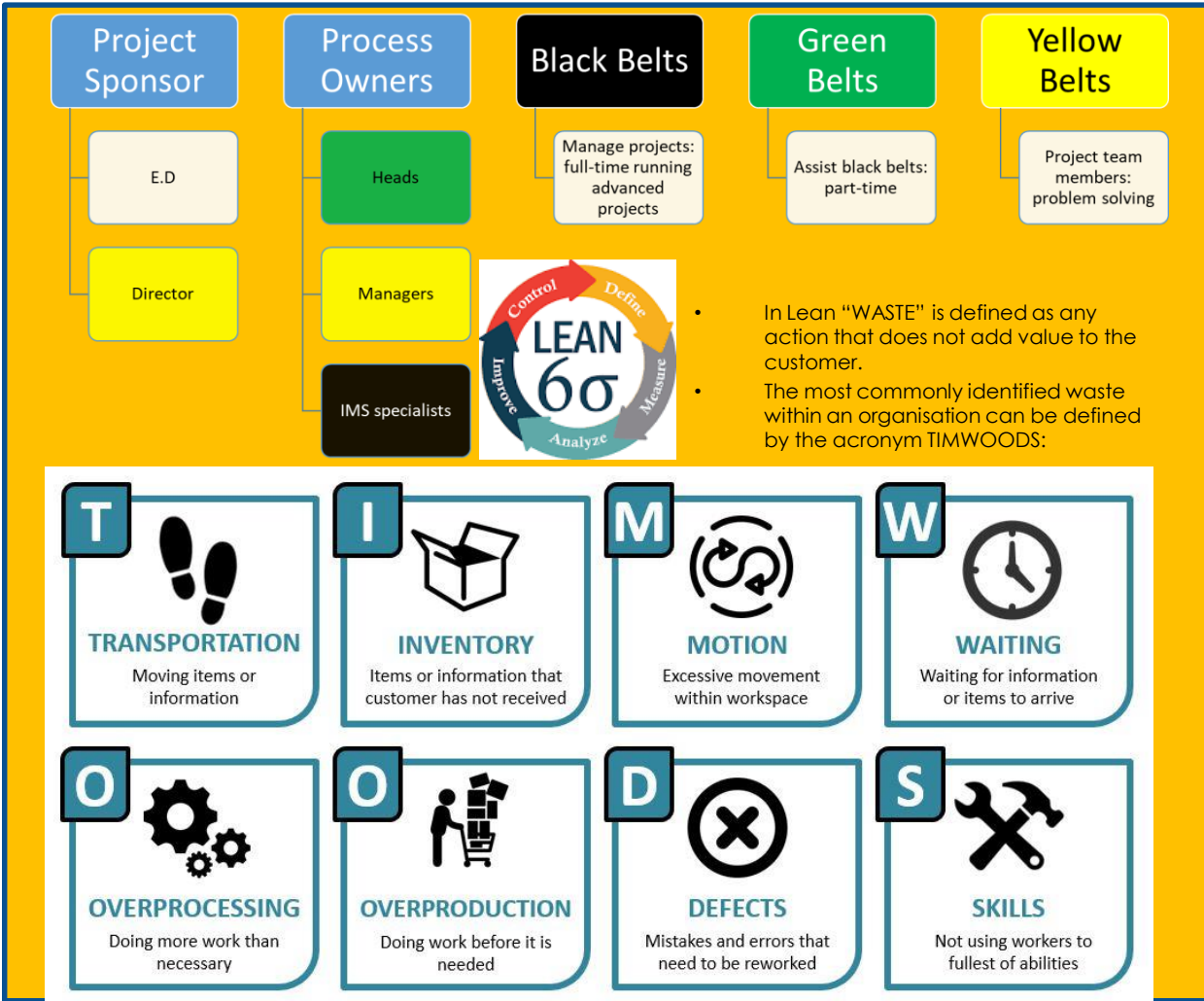


How Are We Meeting SDGs?

Sustainable Development Goals (SDGs)



PROCESS:
CONTINUAL IMPROVEMENT/LEAN SIX SIGMA



PEOPLE: OHSMS/ISO 45001



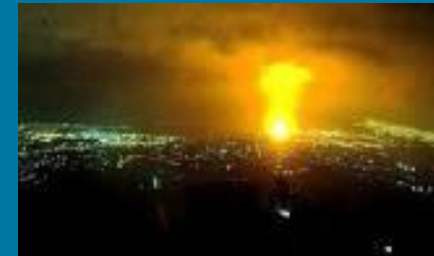
02 Nov

Denel munitions plant safety questioned following explosion

news24 Nicole McCain

SHARE  

- An explosion has been reported at the Rheinmetall Denel Munition in Somerset West.
- No injuries have been reported.
- In 2018, eight people died in an explosion at the same site.



8 DECENT WORK AND ECONOMIC GROWTH

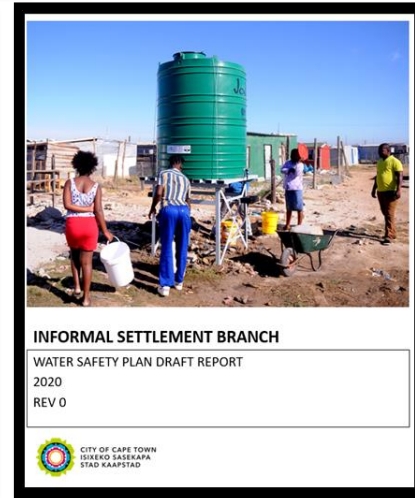
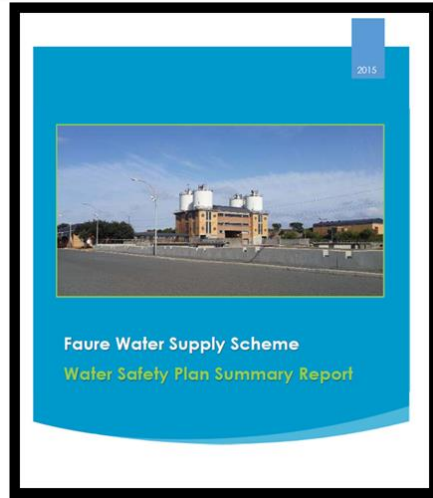
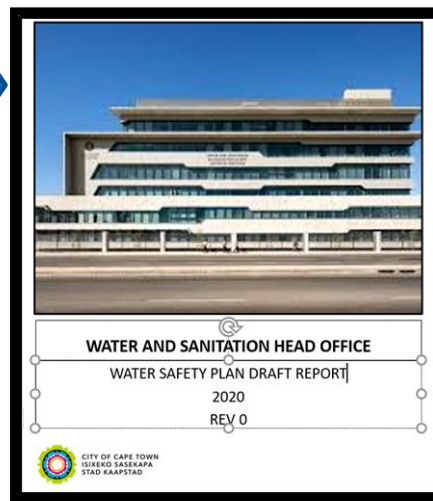


11 SUSTAINABLE CITIES AND COMMUNITIES



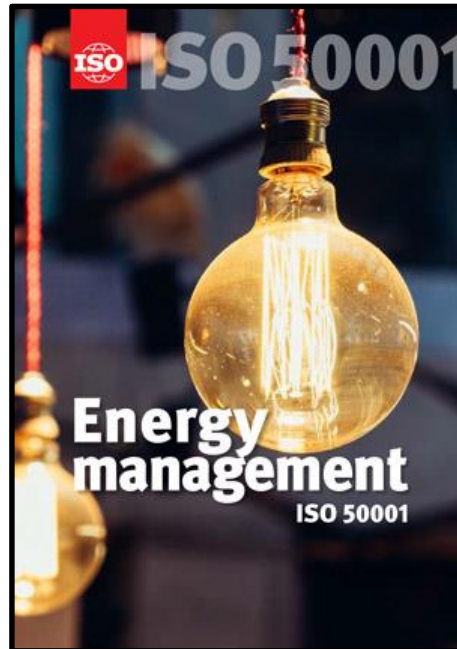
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PRODUCT: ISO 22000 Water Safety Plans



POWER: Energy Management System ISO 50001

7 AFFORDABLE AND
CLEAN ENERGY



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MINUTES OF EnMS Roadmap Meeting, HELD
ON 8 March 2019 IN Bellville WWTW BDRM,
Bellville from 12:00PM to 13:30PM

Attendees:

NAME	INITIAL	DESIGNATION
Mario Carelse	MC	Head: Business Improvement (WDM & Strategy)
Oliver Stofko	OS	SPO: Generation Dev. & Municipal Efficiency
Judy Josephs	JJ	Senior Process Controller: Bellville WWTW
Mzwandile Mkhize	MM	Technician: Water Demand Management & Strat.
Mushirah Rehman	MR	Student: Water Demand Manage. & Strategy
Sue-Ann Muller	SM	Student: Water and Sanitation
Tasneem Adams	TA	Technician: Energy & Climate Change Directorate
Damien Fortuin	DF	Learner Technician: E&CC Directorate
Darin McComb	DM	External Consultant: Resource Innovations
Denis van Es	DvE	External Consultant
Jesper Vauvert	JV	Energy Efficiency Advisor (GIZ)

SUBJECT	ACTION
<p>1. Discussion on Existing ISO9001 System at Bellville WWTW</p> <p>a) MM presented on the ISO9001 system which was certified to the 2015 latest version of the standard by the South African Bureau of Standards. The last system internal audit took place in October 2018 at Bellville WWTW. The certification was for the Bellville WWTW but the long term approach to obtain an organisational certification (this will take time as in this case the potential weakness of one plant will affect the certification of the whole organisation so all sites will have to be standardised before this approach taken). JJ is the designated QM Representative for the Bellville WWTW.</p> <p>b) DM and DvE highlighted the framework similarities between ISO9001:2015 and ISO50001:2018 both following the Plan- Do- Check- Act approach. OS</p>	<p>OS to purchase copy of</p>



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ENVIRONMENT : EMS ISO 14001



15 LIFE ON LAND



14 LIFE BELOW WATER



13 CLIMATE ACTION



ASSETS: AMS/ISO 55001



9 INDUSTRY, INNOVATION
AND INFRASTRUCTURE



PARTNERSHIPS: SCM/Enterprise and Supplier Development and Investment

8 DECENT WORK AND ECONOMIC GROWTH



17 PARTNERSHIPS FOR THE GOALS



SUPPLIER SUPPORT PROGRAMME

sedo
SMALL ENTERPRISE DEVELOPMENT AGENCY

THE CITY OF CAPE TOWN IN PARTNERSHIP WITH THE SMALL ENTERPRISE DEVELOPMENT AGENCY (SEDA) INVITES APPLICATIONS FOR THE SUPPLIER DEVELOPMENT PROGRAMME.

The services provided by SEDA will differ based on their diagnostic assessment and offered on a shared cost basis as follows - City (45%), SEDA(45%) and the applicant(10%).

To apply for the programme please contact your local SEDA branch office as follows:

Cape Town	021 487 3656
Abandic	021 577 1045
Khayelitsha	021 360 1390
Belville	021 948 2337

For more information or to apply for assistance, call or email The Business Hub.
www.sepa.gov.za/thebusinesshub
021 417 8043

The programme will support City vendors to improve competitiveness and access new markets through the following business development services:

- i. Feasibility studies to access new market opportunities
- ii. Marketing material
- iii. Signage
- iv. Human resource assistance
- v. Financial management services/ system implementation i.e. financial clean-up for tax compliance, accounting systems e.g. Pastel, QuickBooks, etc.
- vi. Quality Management Systems (ISO) implementation and certification.
- vii. Mentorships
- viii. Website development

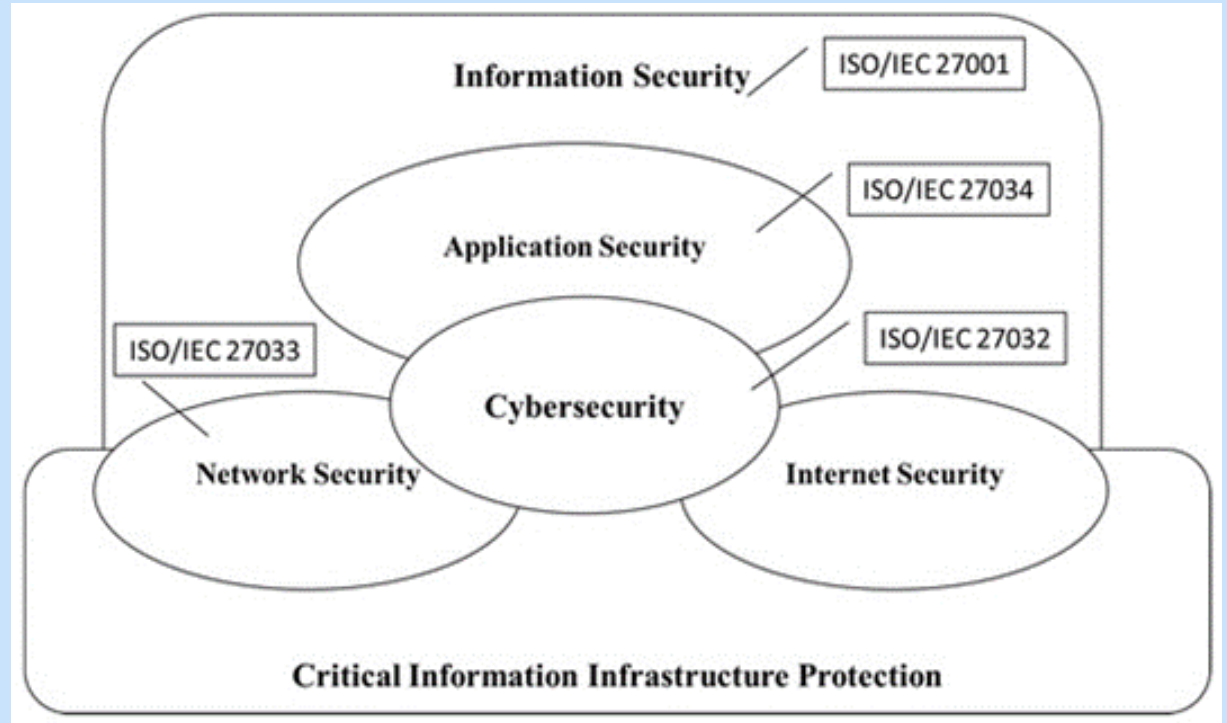
The services provided by SEDA will differ based on their diagnostic assessment and offered on a shared cost basis as follows - City (45%), SEDA(45%) and the applicant(10%).

Bid Specifications

108. Bid specifications must be drafted in an unbiased manner to allow all potential suppliers to offer their goods or services.
109. Bid specifications must take account of any accepted standards such as those issued by South African National Standards, the International Standards Organisation, or any authority accredited or recognised by the South African National Accreditation System with which the equipment or material or workmanship should comply.
110. Bid specifications shall, where possible, be described in terms of performance required rather than in terms of descriptive characteristics for design.

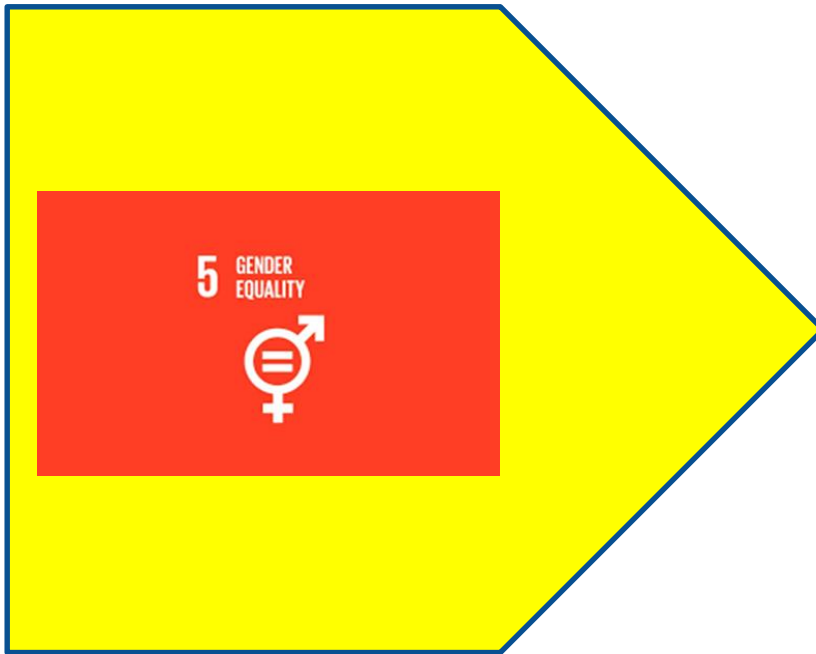


9 INDUSTRY, INNOVATION
AND INFRASTRUCTURE



PEOPLE:

The main purpose behind this celebration to raise the level of quality awareness in our department and to recognize the efforts and contributions of our Quality Super Woman.



🕒 ISO/TS 24522:2019

Event detection process: Guidelines for water and wastewater utilities

Stage : [Published \(90.20\)](#) TC : [ISO/TC 224](#) ICS : [03.080.30](#), [13.060.20](#), [13.060.30](#)
Sustainable Development Goal(s) : [11](#), [6](#) Edition : 1

🕒 ISO 24523:2017

Service activities relating to drinking water supply systems and wastewater systems — Guidelines for benchmarking of water utilities

Stage : [Published \(90.20\)](#) TC : [ISO/TC 224](#) ICS : [03.080.30](#), [13.060.20](#), [13.060.30](#)
Sustainable Development Goal(s) : [11](#), [6](#) Edition : 1

🕒 ISO 24527:2020

Service activities relating to drinking water supply, wastewater and stormwater systems — Guidelines on alternative drinking water service provision during a crisis

Edition : 1 Stage : [Published \(60.60\)](#) TC : [ISO/TC 224](#) ICS : [03.080.30](#), [13.060.20](#)
Sustainable Development Goal(s) : [10](#), [11](#), [3](#), [6](#)

🕒 ISO 24528:2021

Service activities relating to drinking water supply, wastewater and stormwater systems — Guideline for a water loss investigation of drinking water distribution networks

Edition : 1 Stage : [Published \(60.60\)](#) TC : [ISO/TC 224](#) ICS : [13.060.01](#), [13.060.20](#)

🕒 ISO 24516-1:2016

Guidelines for the management of assets of water supply and wastewater systems — Part 1: Drinking water distribution networks

Edition : 1 Stage : [Published \(90.60\)](#) TC : [ISO/TC 224](#) ICS : [13.060.01](#), [13.060.20](#)

🕒 ISO 24518:2015

Activities relating to drinking water and wastewater services — Crisis management of water utilities

Edition : 1 Stage : [Published \(90.60\)](#) TC : [ISO/TC 224](#) ICS : [03.080.30](#), [13.060.01](#)
Sustainable Development Goal(s) : [6](#), [11](#), [3](#)

🕒 ISO 20760-2:2017

Water reuse in urban areas — Guidelines for centralized water reuse system — Part 2: Management of a centralized water reuse system

Edition : 1 Stage : [Published \(60.60\)](#) TC : [ISO/TC 282/SC 2](#) ICS : [13.060.01](#)
Sustainable Development Goal(s) : [6](#), [11](#)

🕒 ISO 20760-1:2018

Water reuse in urban areas — Guidelines for centralized water reuse system — Part 1: Design principle of a centralized water reuse system

Edition : 1 Stage : [Published \(60.60\)](#) TC : [ISO/TC 282/SC 2](#) ICS : [13.060.01](#)
Sustainable Development Goal(s) : [6](#), [11](#)

🕒 ISO/TR 14073:2017

Environmental management — Water footprint — Illustrative examples on how to apply ISO 14046

Edition : 2 Stage : [Published \(60.60\)](#) TC : [ISO/TC 207/SC 5](#) ICS : [13.020.10](#), [13.020.60](#)

Are you
making a
QUALITY
difference?



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Making progress possible. Together.



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