

Use of Technology in Safety (Digitisation)

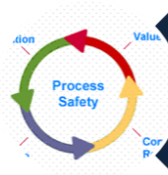


Policies & Commitments



OCCUPATIONAL HEALTH & SAFETY

We are committed to safeguarding our Employees, Contractors and the Communities where we work.



PROCESS SAFETY

We apply the principles of process safety management to maintain the integrity of our facilities



ENVIRONMENTAL MANAGEMENT

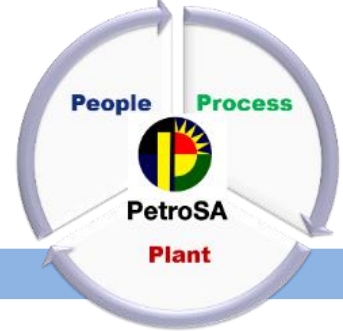
We evaluate and apply ways to reduce the impact of our operations on the environment throughout the lifecycle of our products and operations.



RESPONSIBLE CARE

We engage openly and honestly with people affected by our activities, and develop collaborative and mutually beneficial relationships with our stakeholders

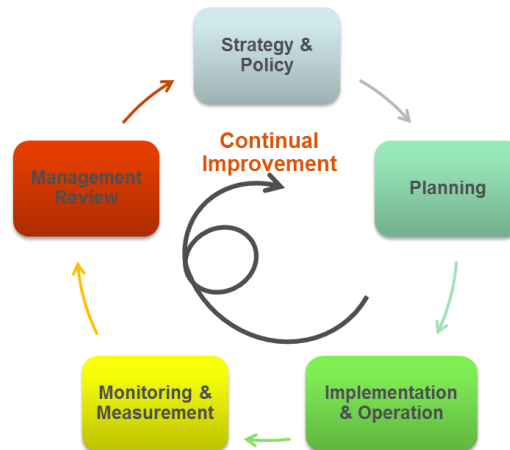
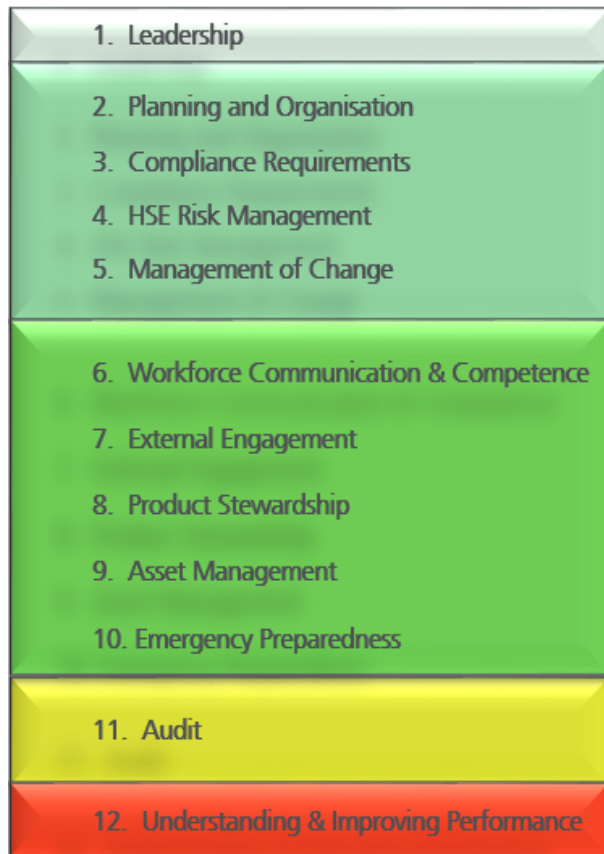
HSE-MS Foundations



ISO 9001:2015
Accredited



Operating the HSE-MS: *Continual Improvement*



Organization and its Context

Leadership

Planning

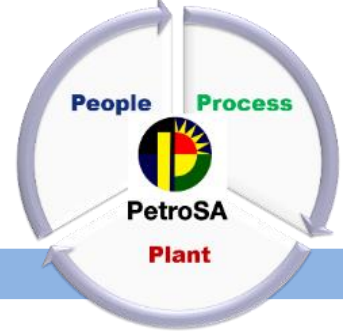
Support

Operations

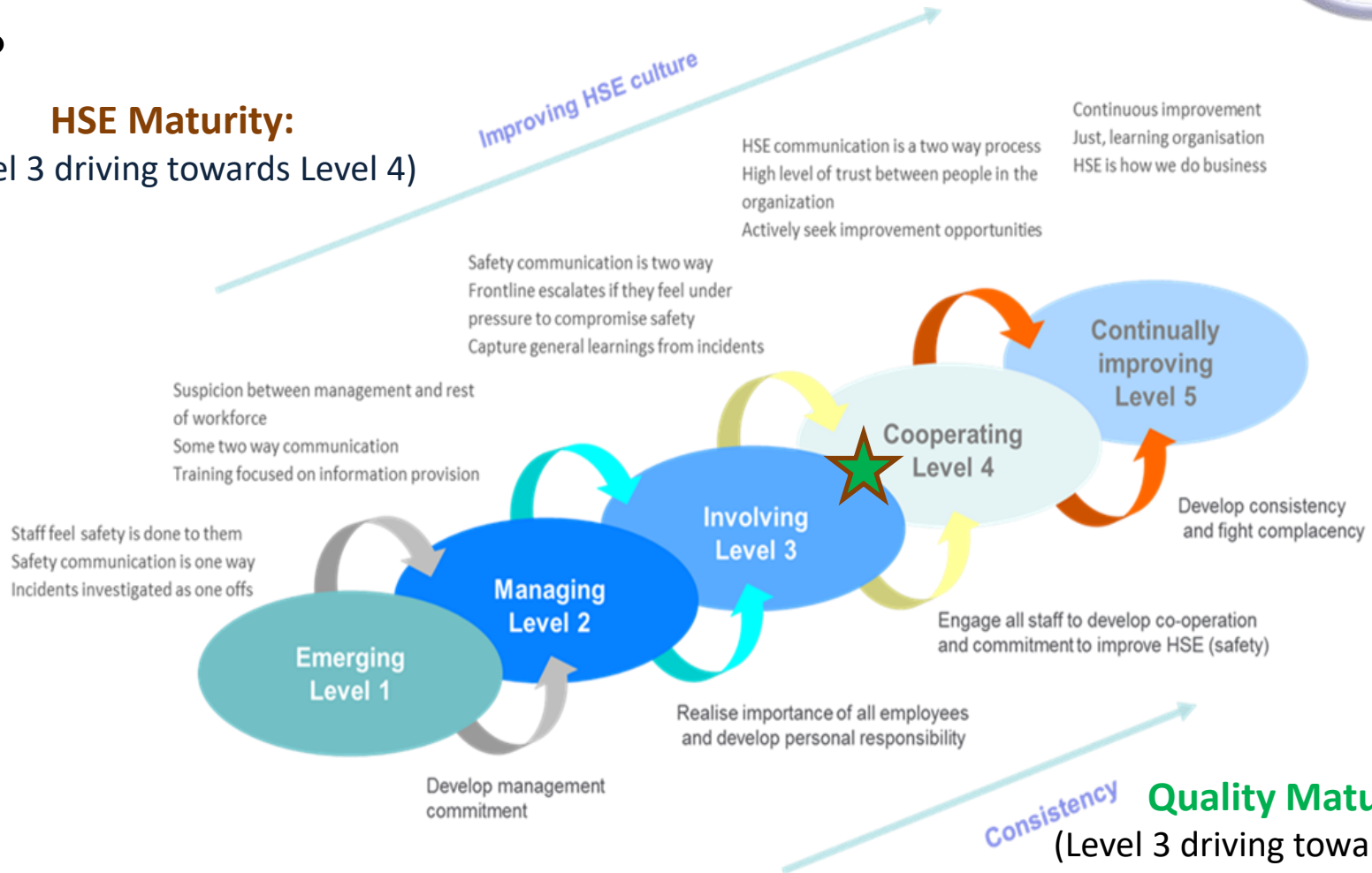
Performance Evaluation

HSE-MS and QMS (ISO 9001:2015 Accredited) aligned towards continual Improvement.

HSE-MS & QMS Systems Maturity



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- **HSE Maturity:**
(Level 3 driving towards Level 4)



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Safety Management System @ Supervisory Level:

- Legacy of NOSA MBO system:
 - ISO admin paper-based templates & audit/inspection checklists aligned to OHSAS 18001 and now starting journey aligning to ISO45001.
 - *Converted to electronic MS Office form formats, i.e. source, efill in, sign and archive.*
 - Migrated all business areas to electronic “non-paper form system”.
 - *Progressively converting to easily worked pdf-based forms.*
 - e.g. PPE Record of Issue / Undertaking / Inspection.
 - *Human interfacing with other non-HSE management systems.*
 - **Acknowledged value add/need for an expert electronic SMS.**



SAFETY STANDARDS

ELEMENT
2.40

PROTECTIVE
EQUIPMENT
UNDERTAKING
RECORD OF ISSUE

DIVISION: **Safety Base**

NAME : **John Smith**

CONTROL NO : **12345**

I hereby acknowledge that in terms of the Minerals Act and Regulations, (Act 50 of 1991) I have received the protective equipment as against my signature.
I realize that in terms of this Act, I am obliged to wear it and also realize the implications of Section 27 of the Compensation for Occupational Injuries and Diseases Act (Act 130 of 1993), that I may not receive compensation if injured when not wearing my Protective Equipment.

I undertake to maintain all items issued in a clean and good condition.
I accept responsibility for correct use and shall ensure that my Supervisor is notified of equipment that became unfit for use.

EMPLOYEE SIGNATURE : DATE : **08 Sept 2021**

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RECORD OF ISSUE

	DATE ISSUED	SIZE & QUANTITY	COMMENTS	SIGNATURE
One piece overall				
Overall Trouser				
Overall Jacket				



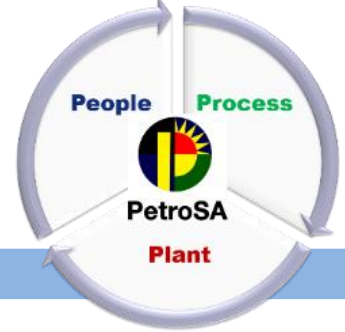
SAFETY STANDARDS

ELEMENT
2.40

PERSONAL PROTECTIVE
EQUIPMENT
INSPECTION

DIVISION : SAFETY	
NAME OF EMPLOYEE: John Smith - 12345	
YEAR: 2023	
Supervisors shall ensure that these clothing are inspected monthly, files completed, maintained in good order and replaced where necessary at Direction of Health Section Manager (Procedure - SAFWVSTL016)	
CONDITION OF ITEM:	EXCELLENT = E GOOD = G POOR = P NOT APPLICABLE = N/A
ITEMS TO BE INSPECTED	Ins. #3
Overall Pants	G
Overall Jacket	G
Overall Shirt	N/A
One piece Overall	G
Safety Shoes/Boots	G
Eye protection	G
Headsets	G
Hand tools	G
Ear protection	N/A
Gloves	G
Respirator	N/A
Accessories	N/A
First aid kit	N/A
Safety harness/Lanyard	N/A
Face Mask Cloth / Disposable	N/A
Winter Jacket	N/A
Date of Inspection	30-Nov-23
SIGNATURE OF EMPLOYEE	John Smith
SIGNATURE OF SUPERVISOR (Spot Checker)	Supervisor

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Risk Management (Control of Work) @ Supervisory Level:

- PTW (Permit-to-Work) System:
 - Paper based – booklet format: Permit + Safety Authorisation + HIRA documents.
 - Supported by SOPs: PTW, CSE, AGT, WAH, etc. and unit-based SOPs for safemaking and preparation for maintenance.
 - Hazard ID and Risk Assessment (System & Human Factors) the main root cause challenge – migration to electronic system will build best practice and ease of pro-active collaboration and planning. In principle decision to implement electronic PTW system given improvement in business financial position (recommended by insurer).

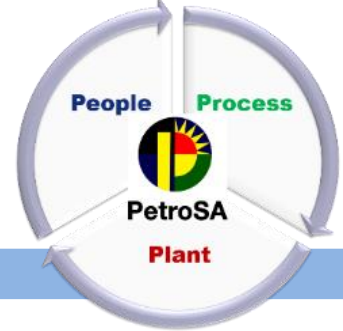
Management of Change (Authorisation):

- MOCA (MOC + MOOC) System:
 - Standalone MS Excel based system for registration and tracking of MOCA's.
 - Managed by Process Safety Management department.
 - Ideally – in future – also enabled within an electronic HSE-MS.

SHEQ (HSE-MS) Auditing & Inspections:

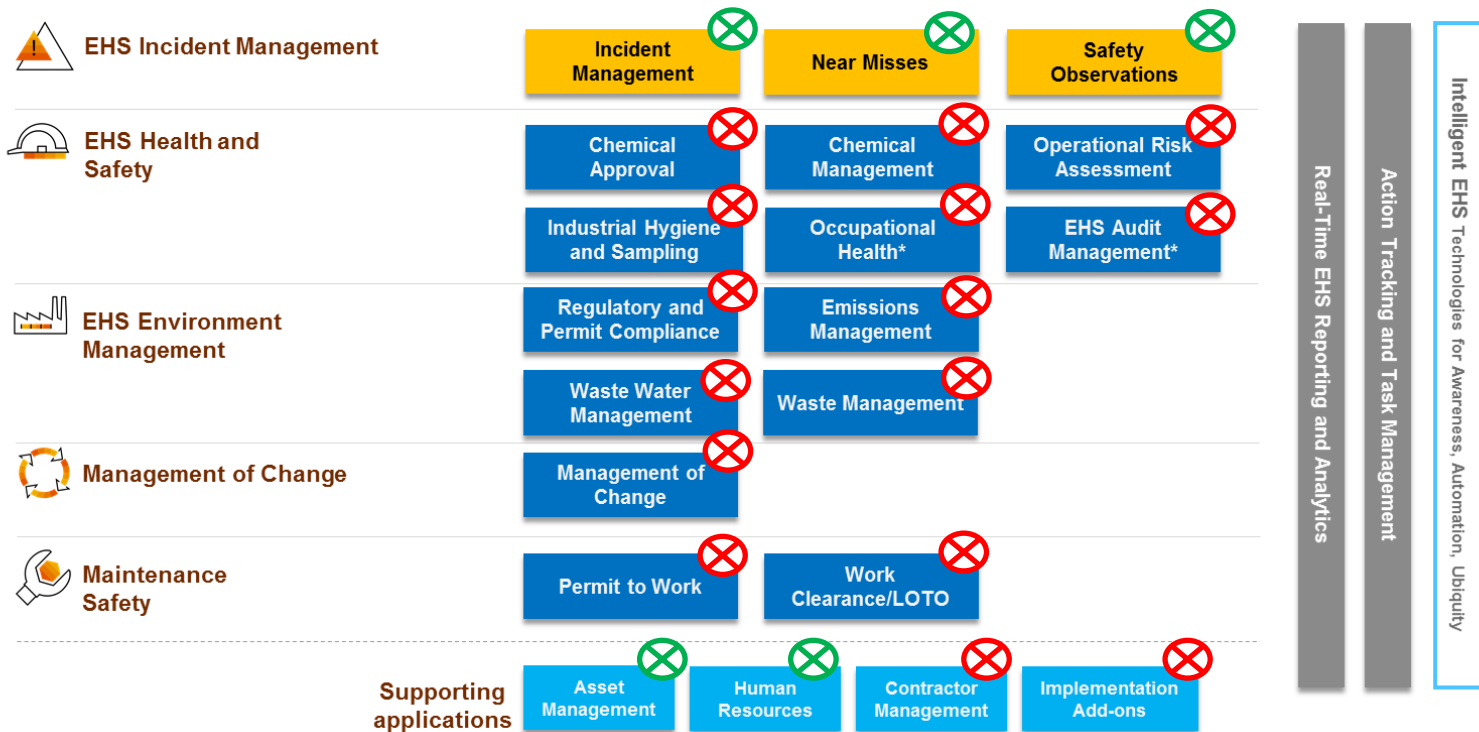
- Paper-based and structured standard templates and checklists.

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Incident Management System:

- SAP EHS – 2015 version:
 - Update pending improvement in business financials.

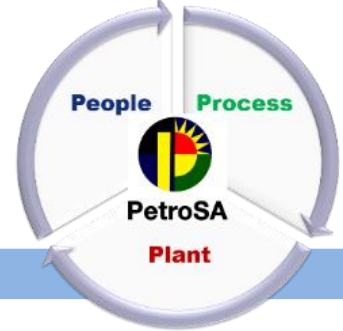


Latest SAP EHS offering (compared to current).

sapia

South African Petroleum Industry Association

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Quo Vadis?

- New Digital electronic HSE-MS given improvement in financials (in-principle executive decision):
 - Streamlined workflows – consistently adapted to sites.
 - *Custom dashboards to easily analyse lead & lag metrics.*
 - Managing corrective actions with greater method-ease via digital exchange.
 - Transparency, visibility and cross learning.



Thank You



“Do your little bit of good where you are;
its those little bits of good
that when put together
can change the world”

Desmond Tutu