



DEWA Successful Health & Safety Practices 2019

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TABLE OF CONTENTS

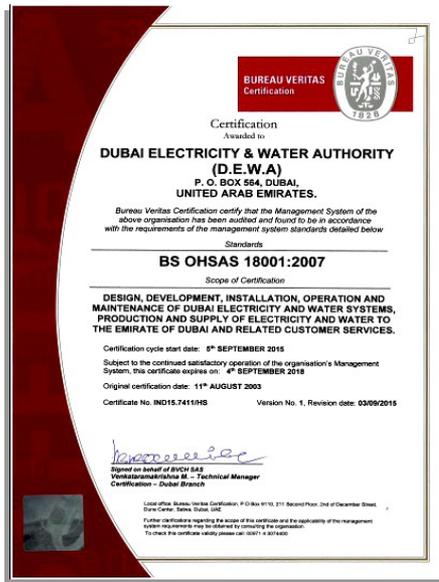
- DEWA Successful Health & Safety Practices
- Scope of work & Objectives
- DEWA Strategy Map
- Framework
- Capabilities, Projects & Initiatives
- H&S Risks
- Sharing best practices
- H&S Performance monitoring & Measuring (Strategic & Operational)



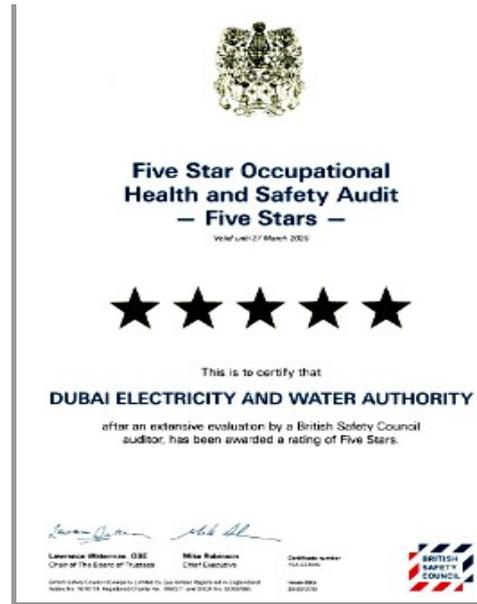


DEWA Successful Practices In OH&S

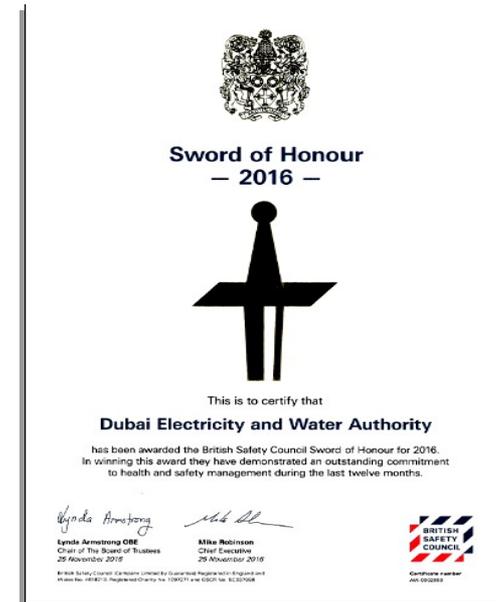
DEWA World-Class in OH&S



OHSAS 18001:2007
From BVC since 2005



5 Star Certificate
from British Safety Council since 2002



Sword Of Honour Award
from British Safety Council since 2007

Sword Of Honour Award

SOH Award for the 12th time from 2007 till 2019 which is considered as the most prestigious award in OH&S and global recognition of DEWA distinguished practices in OH&S

DEWA is the only utility to win this international award in UAE ,Gulf and worldwide specialized in Generation production, Transmission and Distribution of Electricity and Water.



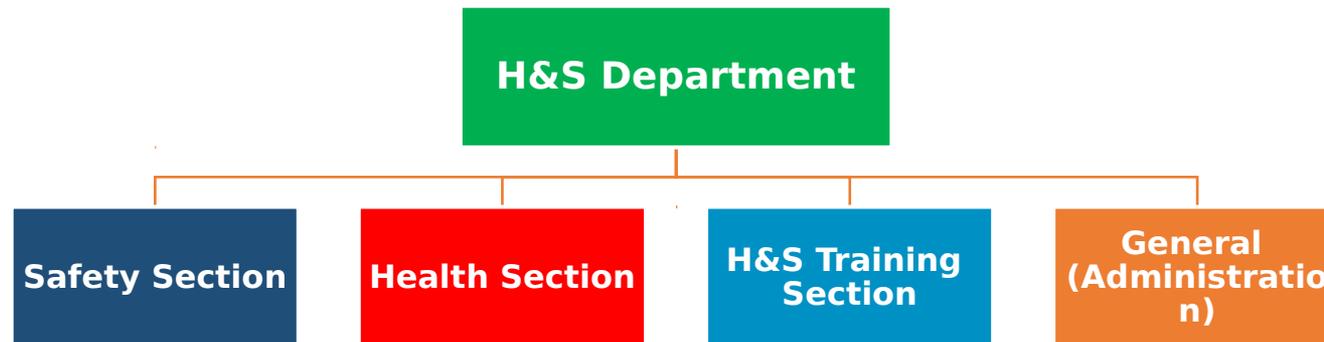
Scope of work & Objectives

Introduction

Scope :

Responsible for H&S activities, the DEWA H&S department maintain H&S with highest level of compliance to international standards, and promotes culture among DEWA stakeholders.

The H&S Department is responsible for providing advisory and technical support to all departments within the organization in line with DEWA IMS Manual , IMS Procedures and OH&S MS Docs.



H&S Department Objectives

Objectives

Compliance with H&S internal, local and international standards and legislation
Evaluation of compliance (H&S Surveillance), Internal audit, BSC 5 Star Audit (%) , IMS Audit, etc.

Ensure Safe and Healthy work environment
H&S inspection, Welfare -Wellbeing Survey, etc.

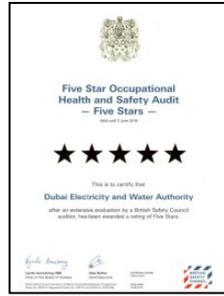
Raising awareness in the areas of health and safety within DEWA and its stakeholders.
Monthly Awareness, H&S Training, etc.

Promoting the stakeholders' confidence, trust and satisfaction.
Satisfaction surveys, etc.

Minimize H&S risks
Risk Assessment drive, Review, etc.



DEWA's Health & Safety successful Journey



H&S Section

Achieving BSC 5 Star certificate

Achieving OHSAS 18001 certificate

Sword Of Honour Award

Achieving SOH for the 11th time successively since 2007

OH&S MS Formation
1995

5 Star Stage
2002

OH&S Standards Development
2003

Global excellence (world-class) in OH&S
2007

Sustainable excellence in OH&S
2008 Onwards

1

2

3

4

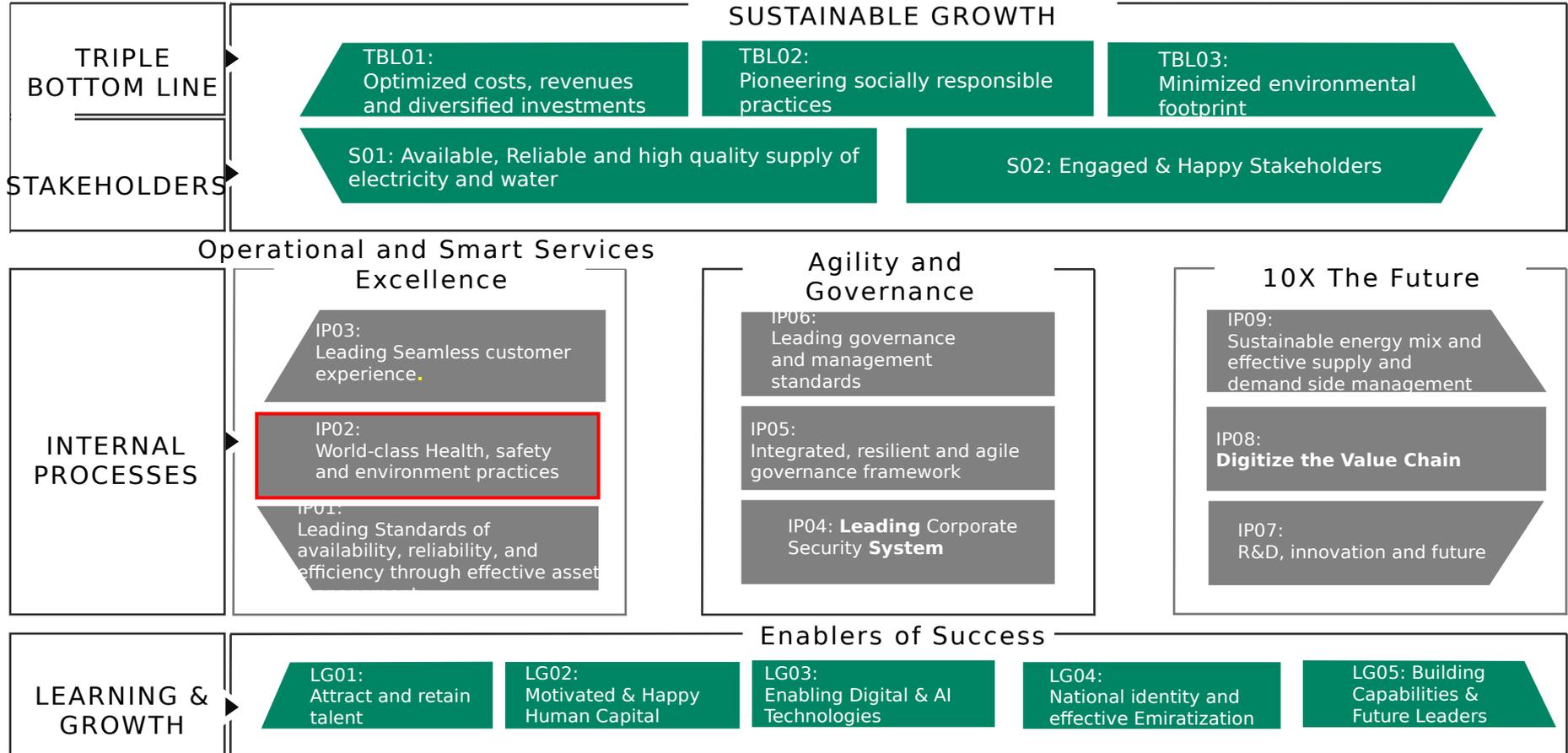
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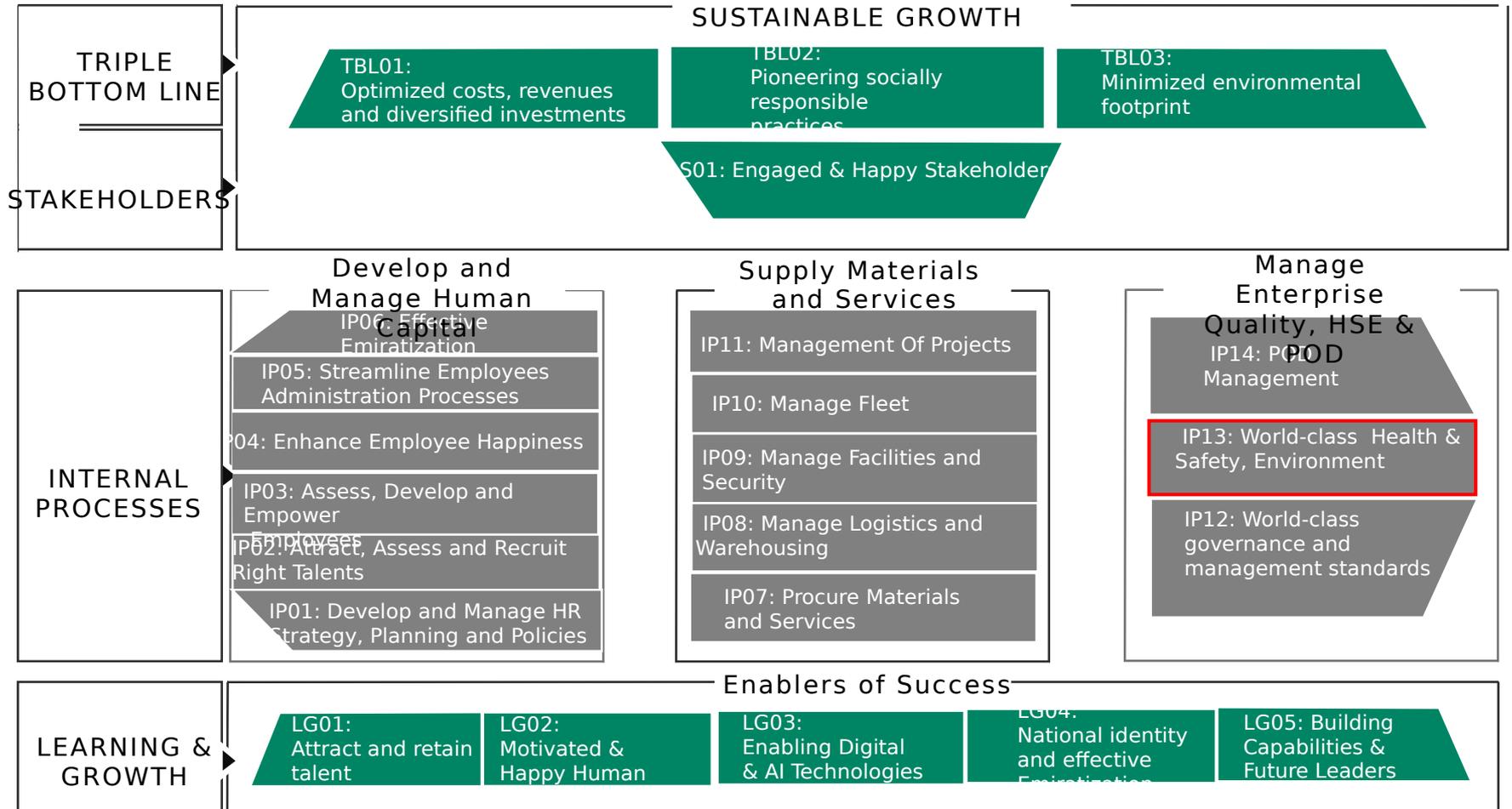


DEWA Strategy Map

DEWA Strategy Map



BS&HR Strategy Map

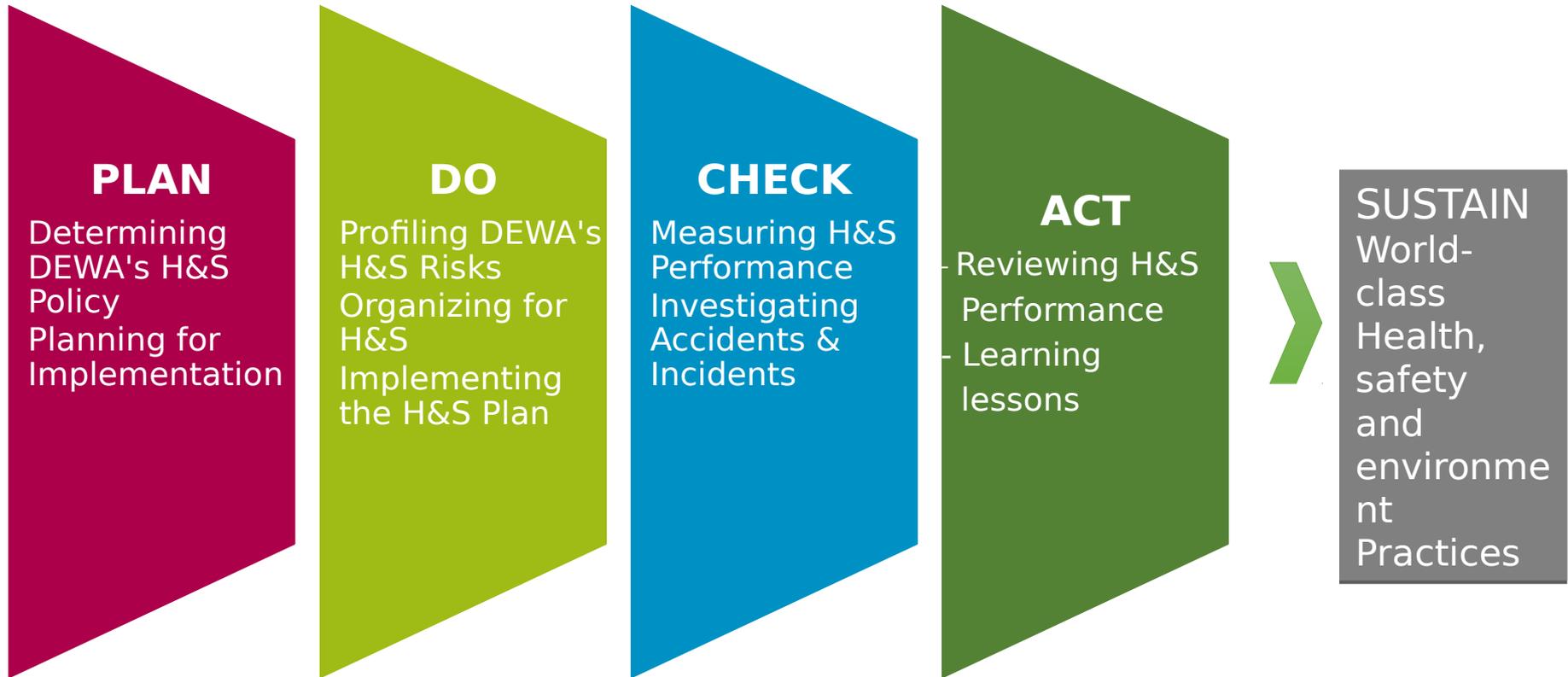




Framework



DEWA H&S Management Systems



OH&S Preventive & Corrective Control Measures , polices & Standards



Outcomes of the Alignments

DEWA Strategic Handbook
Integrated Management
System(IMS) Manual
H&S Process Maps and framework
(16)

Integrated Management System
Procedures - 16 nos.

OH&S Management System
Document Procedures - 16nos

H&S dept. Procedures - 5 nos.

H&S Information manuals & Guidelines

- Safety signs booklet
- First aid booklet
- Road Safety booklet
- Musculoskeletal Diseases
- People of Determination
- Vibration
- Hazard Analysis and Critical Control Points
- Induction manual




سياسة الأنظمة الإدارية المتكاملة Integrated Management Systems Policy Statement

A. DEWA's management is committed to the successful implementation of Quality, Occupational Health, Safety, and Environment Management Systems (QHSE) within its businesses including electricity generation, water production, transmission and distribution of electricity and water. DEWA considers QHSE as fundamental to its creativity, innovation and continual improvement process and sustainability.

B. In this context DEWA is committed to be a globally leading sustainable innovative corporation with intricate QHSE governance as in the following:

1. DEWA adopts best international practices and best approved QHSE standards
2. Comply with all applicable legislative and other requirements related to QHSE and in line with its approved standards as globally accepted and applicable for utilities.
3. Enhance stakeholders' happiness.
4. Ensure taking proper and justifiable decisions based on evidences, facts and merits.
5. Spread awareness about QHSE among all DEWA's staff and promote amongst its stakeholders.
6. Prevent injury, ill health, diseases, dangerous occurrences & incidents to eliminate Occupational Health & Safety (OH&S) related risks.
7. Fully protect the environment and prevent air, land and water pollution.
8. Sustainably manage natural resources.
9. Consider life cycle perspective in all stages of activities, raw material acquisition, utilizing resources and managing waste by reducing, reusing and recycling, where appropriate.
10. Comply with the applicable QHSE requirements in design, construction, operations and maintenance activities.
11. Plan, control, monitor and measure to continually improve or enhance existing and future QHSE performance.



H. E. Saeed Mohamed Al Tayer
MD & CEO of Dubai Electricity & Water Authority

سعادة / سعيد محمد الطاير
 العضو المنتدب الرئيس التنفيذي لهيئة كهرباء ومياه دبي

April 2019





Our Vision رؤيتنا
 مؤسسة رائدة عالمياً
 مستدامة وبتفكير
 innovative corporation



Core Activities

Health & Safety Activities

- H&S Training & Awareness
- H&S Internal Week/ Public Week
- H&S Contractor Awareness Day
- Internal & External H&S Forums/Conferences
- Health Screening & Survey
- Stress Management
- Blood Donation Campaign
- H&S Inspection
- H&S Surveillance
- H&S Surveys
- Risk Assessment Drive
- Fire Drill (Mock Drill)
- Accident Near miss Investigation
- External Audits
- Sword of Honor
- Dubai Govt. Excellence Program
- EFQM
- CSR (Public)
- Benchmarking



IMSP 01 Control of Documents

IMSP 02 Control of Records

**IMSP 03 Hazard Identification
and Risk Assessment Aspect -
Impact**

**IMSP 04 Procedure for
Identification of Legal and other
requirements**

IMSP 05 Training Procedure

**IMSP 06 Communication,
Participation & Consultation**

**IMSP 07 Emergency
Preparedness & Response**

**IMSP 08 Monitoring &
Measurement**

**IMSP 09 Control of
Monitoring and
Measurement Devices**

**IMSP 10 Evaluation of
Compliance**

**IMSP 11 Incident Reporting
and Investigation**

**IMSP 12 Control of NC
Products**

**IMSP 13 Corrective Action
and Preventive Action**

IMSP 14 Internal Audit

**IMSP 15 Management
Review**

IMSP 16 Process Mapping



HSE Management System

SP-01 General Safe Working Procedure

SP-02 Electrical Safe Working Procedure

SP-03 Mechanical Safe Working Procedure

SP-04 Chemical Handling & Storing Safe Working Procedure

SP-05 Fuel Handling Safe Working Procedure

SP-06 Occupational Health & Safety (OH&S) Procedure for contractors

SP-07 Civil Safe Working Procedure

SP-08 Personnel Protective Equipment, Issue, replace & Record

SP-09 Fire Protection, Prevention and Fire Risk Assessment Procedure

SP-10 Permit to Work Procedure

SP-11 Procedure for Control & Monitoring Noise in Workplace

SP-12 Occupational Health Procedure

SP-13 Fire Drill Procedure

SP-14 H&S Training, Awareness & Competency Procedure

SP-15 Control of Substances Hazardous to Health (COSHH) Procedure

SP-16 Welfare, Wellbeing & Hygiene Procedure



H&S SECTION PROCEDURES إجراءات عمل إدارة الصحة والسلامة

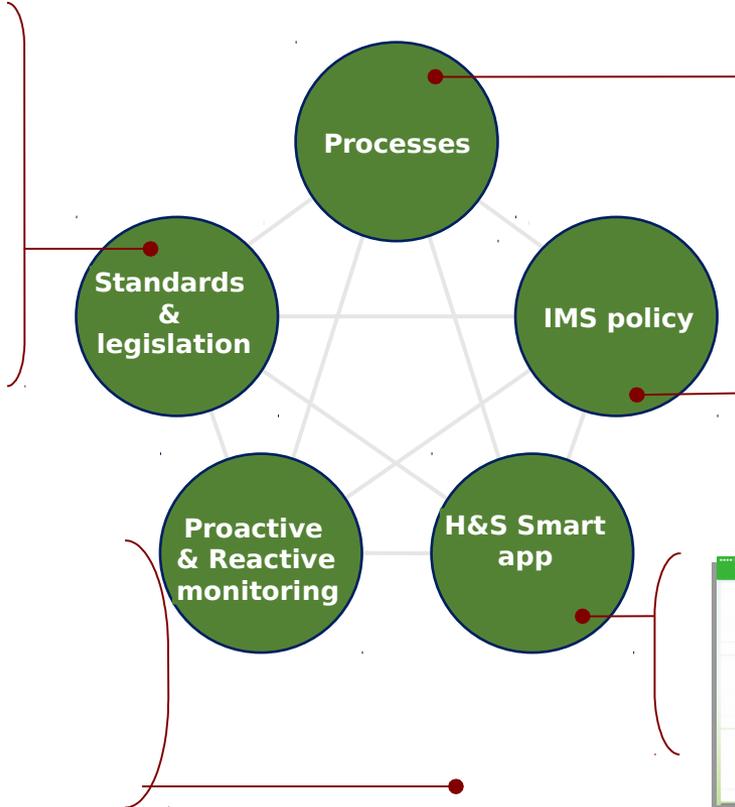
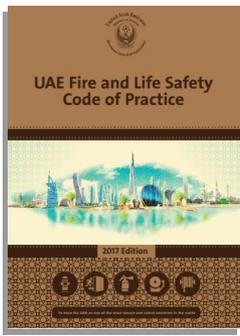
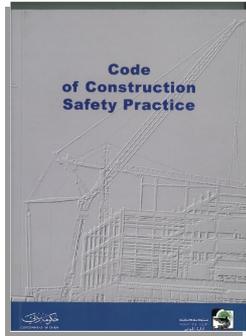
Ref. No.	Name of the Procedure
1 BS-HSE-OH&SSP 01	PROCEDURE FOR HEALTH, & SAFETY INSPECTION
2 BS-HSE-OH&SSP-02	PROCEDURE FOR PREPARATION OF SAFETY SPECIFICATION, SELECTION & INSPECTION OF PPE
3 BS-HSE-OH&SSP-03	PROCEDURE FOR EMERGENCY EVACUATION & FIRE DRILL
4 BS&HR/C&BI/H&SD/H&SD-P04	PROCEDURE FOR H&S SURVEILLANCE VISIT & EVALUATION OF COMPLIANCE VISIT
5 BS&HR/C&BI/H&SD/H&SD-P05	PROCEDURE PRECOMMISSIONING INSPECTION & ISSUING SAFETY CLEARANCE FOR TRANSMISSION SUBSTATION PROJECTS





Capabilities, Projects & Initiatives

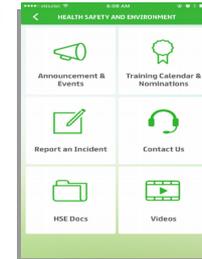
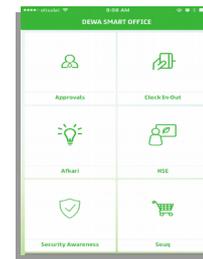
H&S Key capabilities and Deployment



Process Classification Framework

12.6 Manage Health and Safety

Prepared by: Ahmed Said Sr. Eng. - Safety	Reviewed by: Dr. Romit Purohit Mgr. Health	Reviewed by: Mansoor Ali Mgr. H&S Training	Reviewed by: Mohammad Anisur Rahman Mgr. Safety	Reviewed by: Marcell Greeff DSM-H&S	Approved by: Prof. Dr. Taufik Omeish SM - H&S
Signature <i>Ahmed Said</i> Date:	Signature <i>Romit Purohit</i> Date:	Signature <i>Mansoor Ali</i> Date:	Signature <i>Mohammad Anisur Rahman</i> Date:	Signature <i>Marcell Greeff</i> Date: 7 9 2017	Signature <i>Prof. Dr. Taufik Omeish</i> Date:

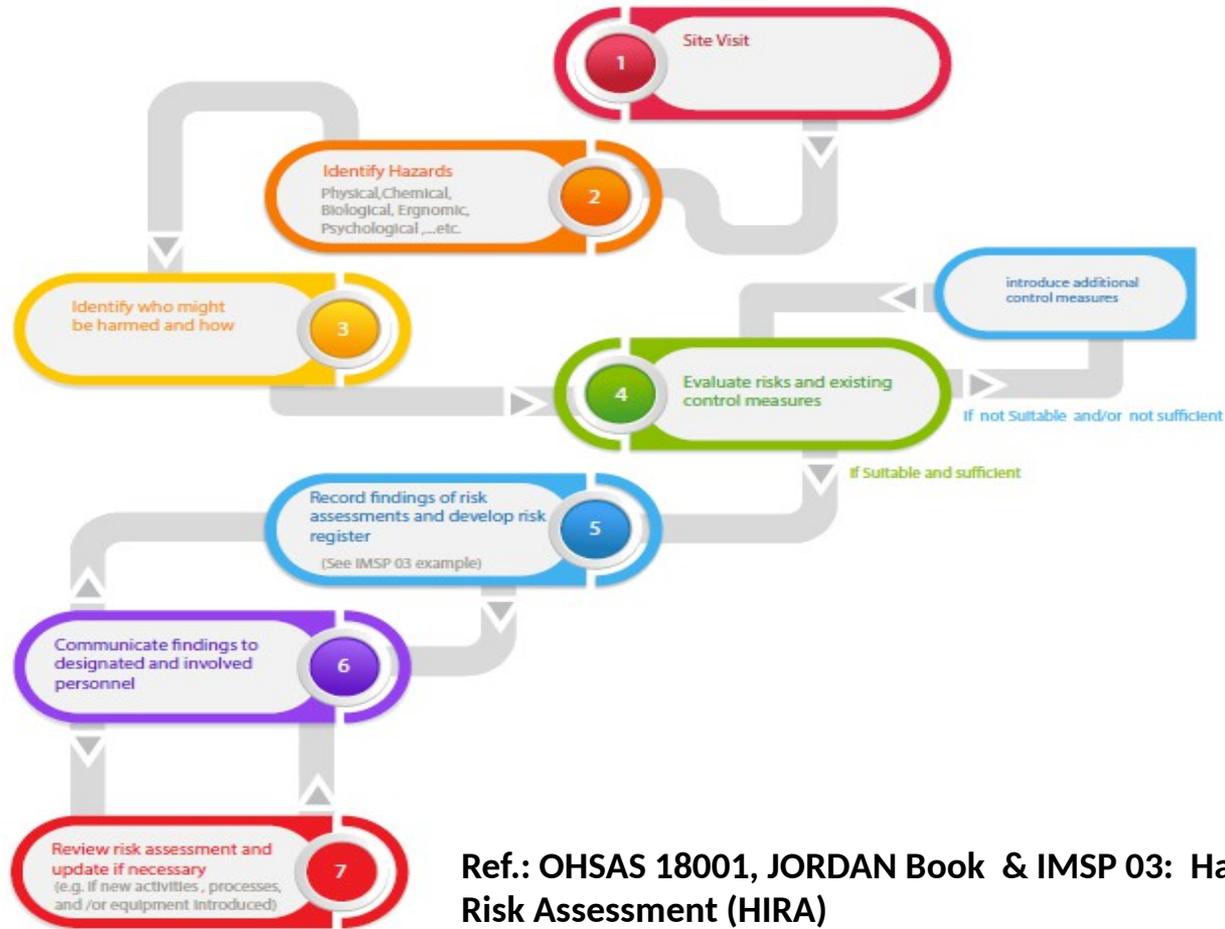




H&S Risk Management

Risk Management methodology

Ref. IMSP 03
Identification of H&S Hazards , Environmental Aspects and Impacts and HSE Risks



Ref.: OHSAS 18001, JORDAN Book & IMSP 03: Hazard Identification & Risk Assessment (HIRA)

Sharing knowledge & best practices

Sharing Best practices

Promoting OH&S Culture is one of the main drivers towards DEWA Global excellence in OH&S. In this regard DEWA has highly considered with care and provided all resources and capabilities in the form of:

The first accredited OH&S Training centre in the middle east by British Safety Council
Training Sessions (external/in-house) in different topics related to OH&S

Stakeholders engagement in variety of programmes ,activities , events....etc to enhance /spread OH&S awareness such as

- H&S Week (internal/Public),
- QHSE Forum
- Middle East Electricity Forum
- contractor awareness day,
- Strategic workshops with partners
- Health Campaigns
- Innovation Week
- Participation with Universities & Schools



Sharing Best Practices

DEWA Safety Signs Booklet 2018 (Version No.1)

Objective: Aims to Standardize the Safety signs and Emergency evacuation plans at DEWA Premises and Project sites

DO NOT DO

Prohibition Safety Signs
You must follow these instructions:
- Prohibition signs display a message or action that must not be carried out within a designated area.
- Prohibition signs indicate where substances or activities are prohibited.

Area Prohibited	Area 1 (Minimum)	Area 2 (Maximum)
Prohibition of fire	1000 x 1000 mm	1500 x 1500 mm
Prohibition of parking	1000 x 1000 mm	1500 x 1500 mm
Prohibition of entry	1000 x 1000 mm	1500 x 1500 mm
Prohibition of smoking	1000 x 1000 mm	1500 x 1500 mm

EMERGENCY ARRANGEMENTS

Safety condition Safety Signs
You must follow these instructions:
- Safety condition signs display warnings or instructions that must be followed in case of emergency.

YOU MUST DO

Mandatory safety signs
Mandatory signs display a message or action that must be carried out within a designated area.
These signs have a blue circular background which contains a white pictogram with an arrow.

How to find a sign from this standard range?
The reference for these signs of follow the same 2 part format:
1. The DE number (2 Alpha + 1 type Mandatory, 2 Alpha, Warning and Prohibition)
2. The size
3. The material (PE, AL, SS, etc.)

FIRE ALARM & FIREFIGHTING

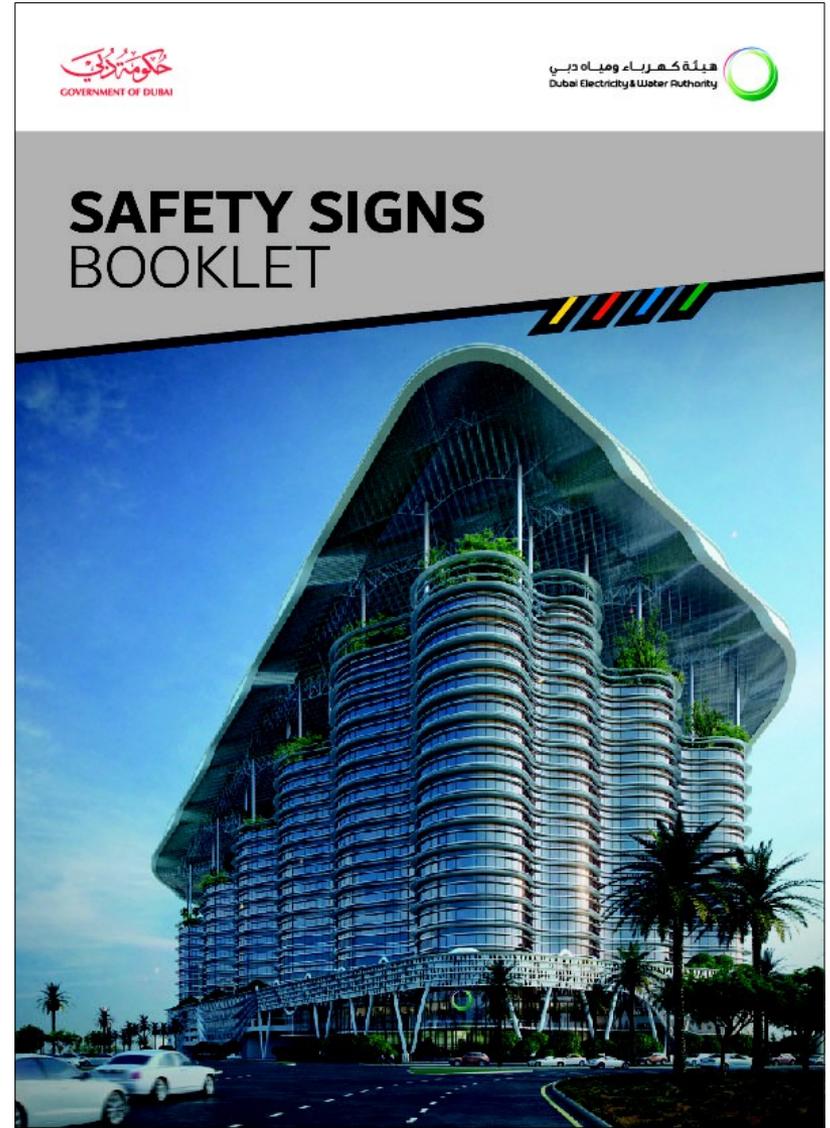
Fire Safety Signs
Fire signs display instructions or information related to firefighting and fire safety.

Area Prohibited	Area 1 (Minimum)	Area 2 (Maximum)
Fire alarm	1000 x 1000 mm	1500 x 1500 mm
Fire fighting	1000 x 1000 mm	1500 x 1500 mm

HAZARD WARNING SIGNS

Warning safety signs
You must follow these instructions:
- Mandatory signs display a message or action that must be carried out within a designated area.

safety signs material
The signs must be made of the following materials:
- PE (Polyethylene) for signs with a size of 1000 x 1000 mm.
- AL (Aluminum) for signs with a size of 1500 x 1500 mm.
- SS (Stainless Steel) for signs with a size of 1500 x 1500 mm.



SAFETY SIGNS BOOKLET



Certified Training center from British Safety Council



- The British Safety Council, United Kingdom; in 2015 certified Dubai Electricity & Water Authority a “certified BSC Training Center” for all NLP levels of training in Health, Safety & Environment.
- DEWA is the only Govt. Entity to hold this privilege in Middle East & Central Asia.

Health & Safety In House Training

Sr. No.	Title
1.	Induction Training
2.	The Essentials of Health & Safety at the Workplace
3.	Office Ergonomics
4.	Emergency Planning & Preparedness
5.	Risk Assessment
6.	Hazard identification & Hazard communication (Urdu/Hindi)
7.	Accident prevention, Investigation & Reporting
8.	Preventing Back Injury
9.	Supervising Staff Safely in the Workplace
10.	BSC Level 1 Award in Health and Safety at Workplace
11.	BSC Level 2 Award in Health and Safety in the Workplace
12.	BSC Level 2 Award in Risk Assessment
13.	BSC Level 2 Award in DSE Risk Assessment
14.	E Learning - Back Pain Training
15.	E Learning - Display Screen Equipment





H&S Performance Monitoring & Measuring

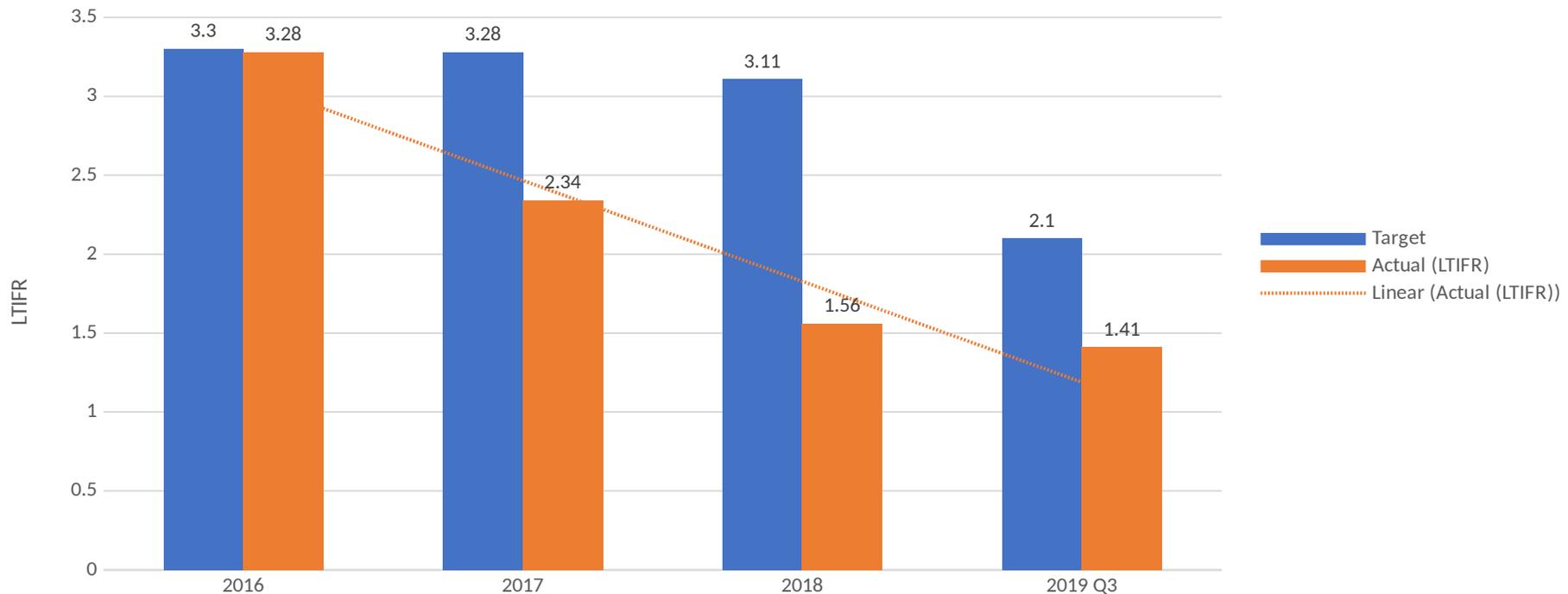
Strategic Indicators

Key Performance Indicators - LTIFR

LTIFR was included as a KPI since 2018. It is benchmarked internationally

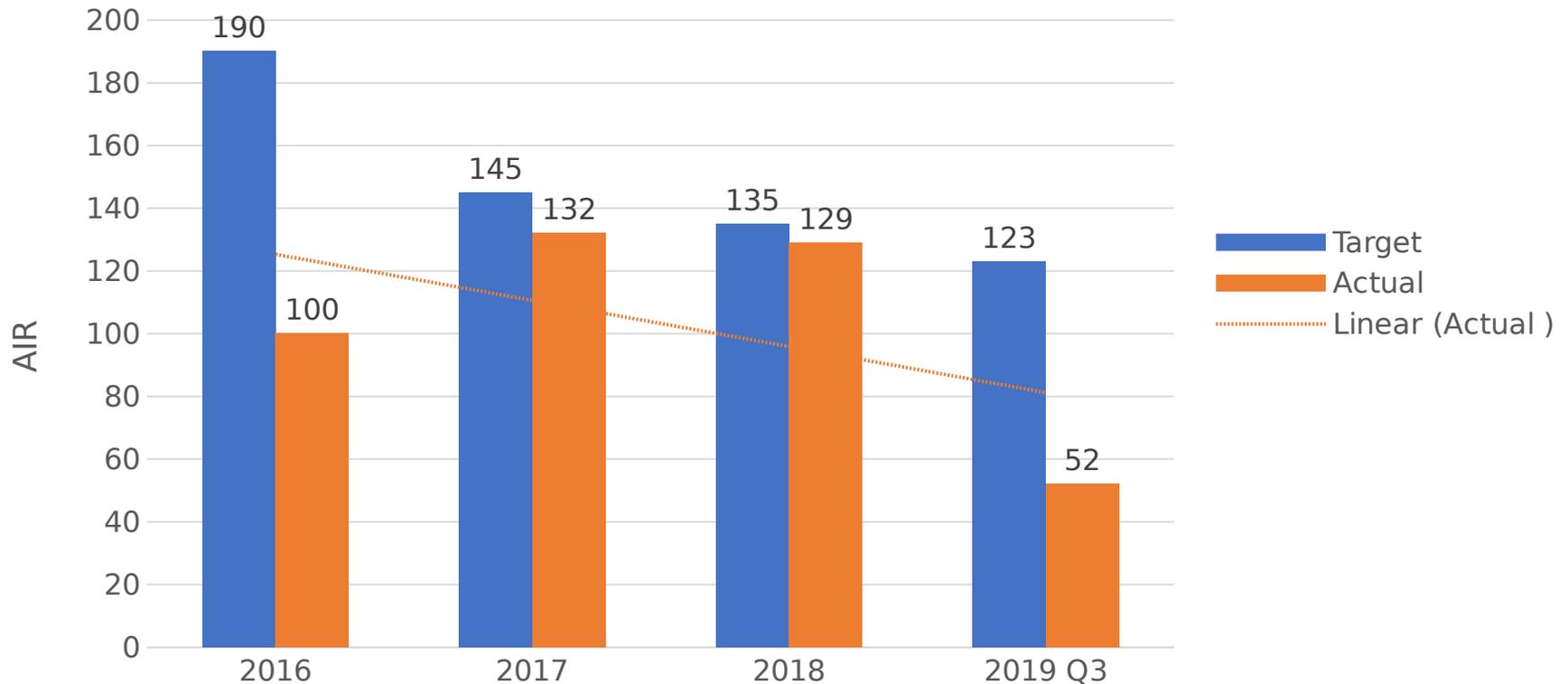
LTIFR Formula = No. of Loss Time Injuries (LTI) x 1,000,000 /
Man hours of exposure (Total No. of Staff X 7.5 X No. of Working Days)

LOSS TIME INJURY FREQUENCY RATE (LTIFR) 2016- 2019 (Q3)



Key Performance Indicators - AIR

Comparison of Accident Incident Rate (AIR)
from 2016 to 2019 Target & Achievement



ACCIDENT INCIDENT RATE (AIR) IS CALCULATED ON THE BASIS OF THE FOLLOWING FORMULA

NO. OF RIDDOR ACCIDENTS X
100000

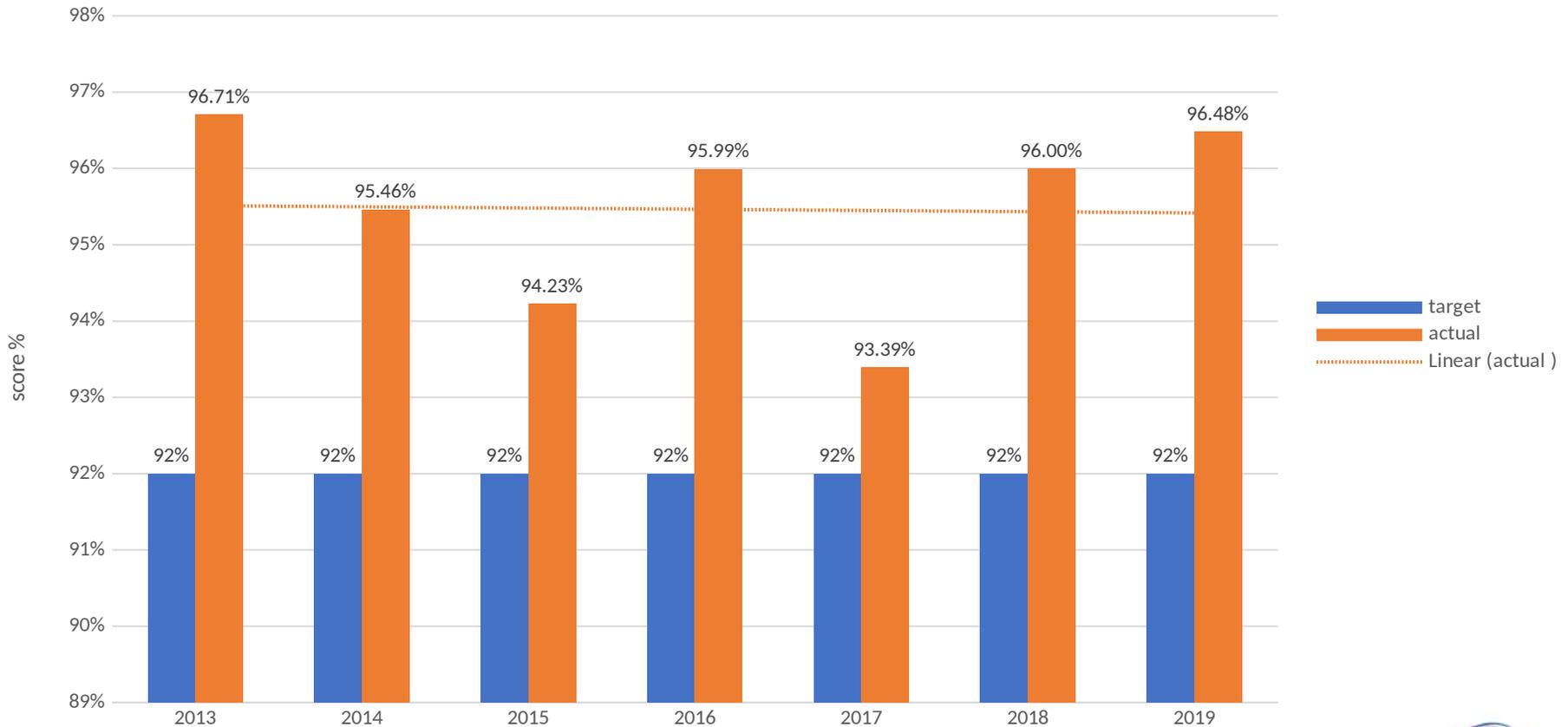
TOTAL NO. OF EMPLOYEES



DEWA World-Class in OH&S

5 Star Occupational Health & Safety Management System Audit
since 2007
Fulfillment of 5 Star Audit Requirements (Audit Criteria):

British safety council , 5 Star Audit score %



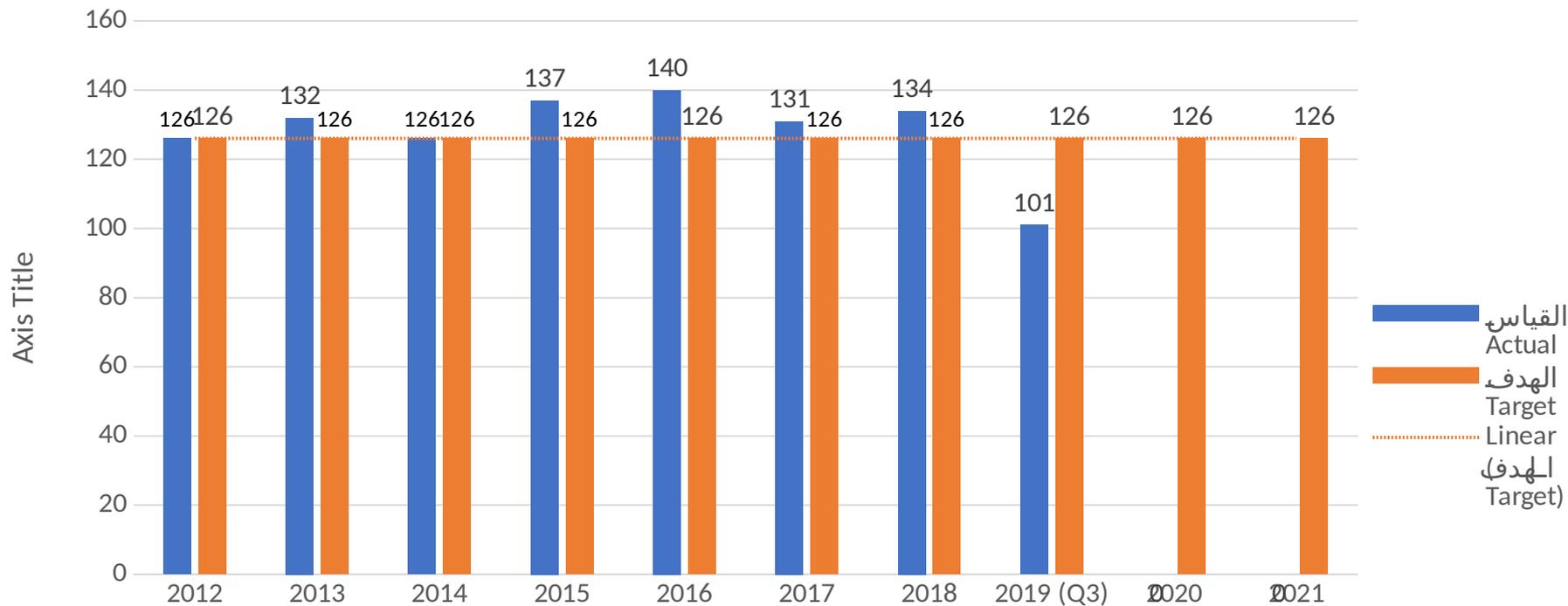


H&S Performance Monitoring & Measuring Operational indicators

Promoting safety culture

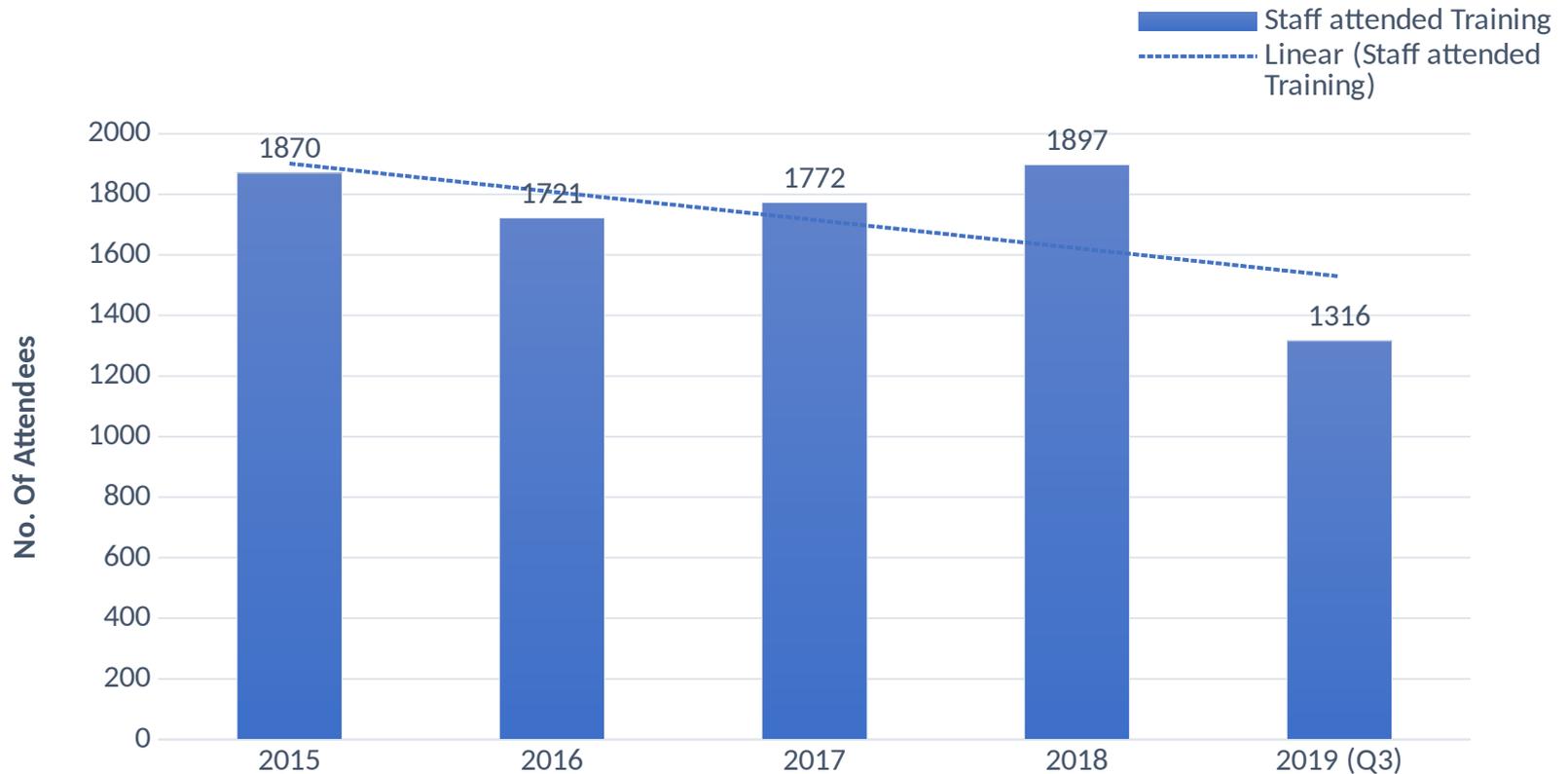
Number of H&S Training Sessions conducted by H&S Department
2012 - 2019 Q1

عدد الدورات التدريبية في الصحة والسلامة المهنية



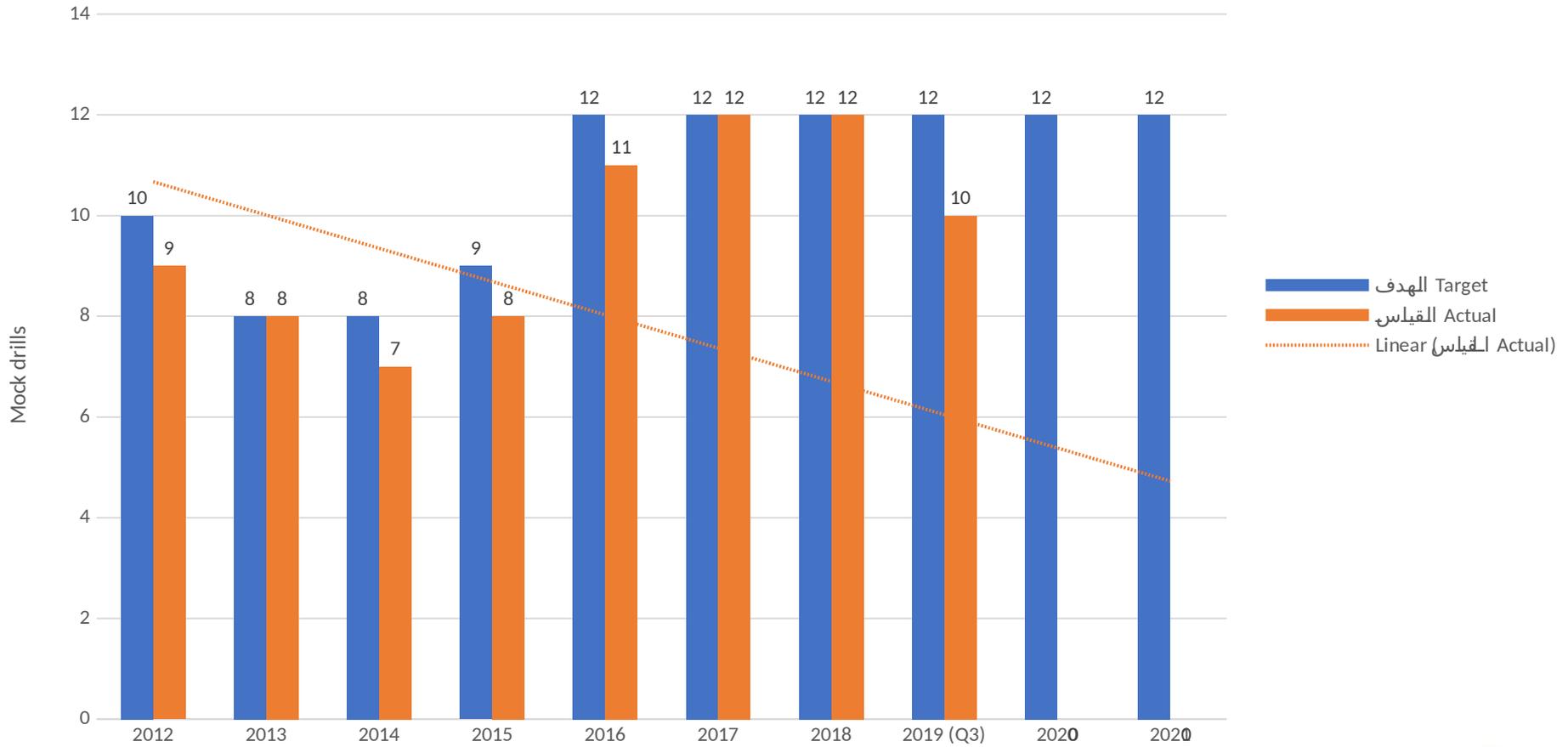
Promoting safety culture

Number of DEWA Staff attended H&S Training 2015 - 2019 Q1



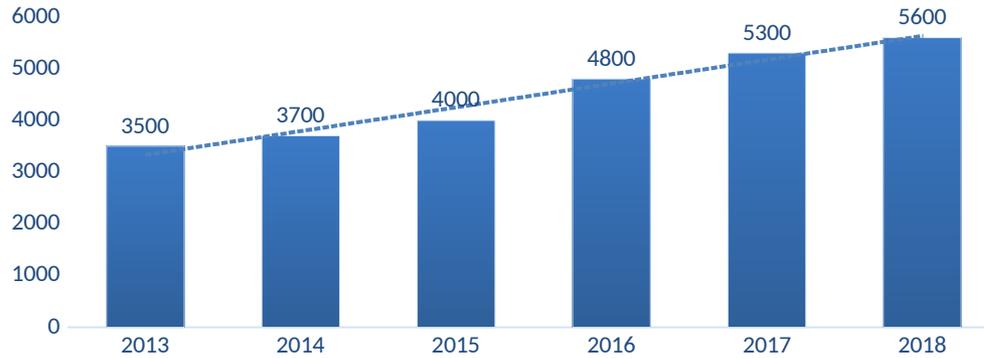
The Participatory Approach

عدد التدريبات العملية (التجارب الوهمية) مع خدمات الطوارئ دبي
Mock drills with Dubai Emergency Services

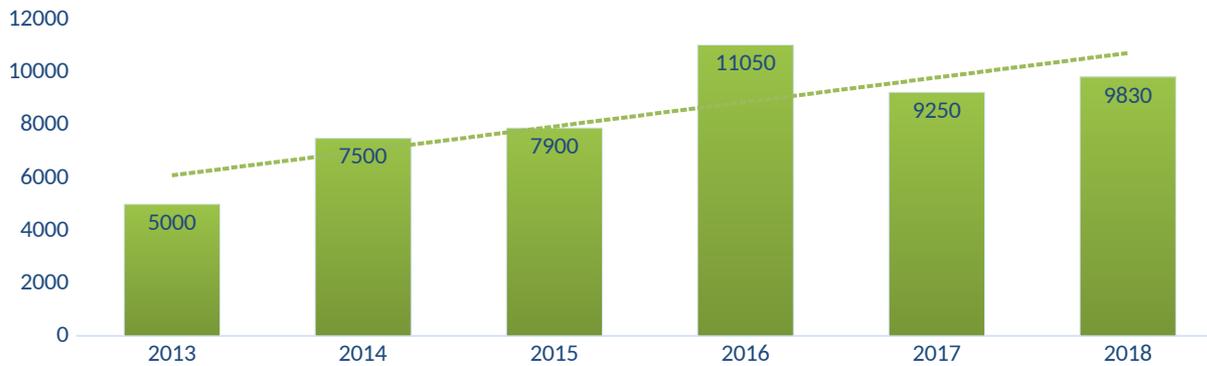


Employee & Public Engagement

Internal H&S Week

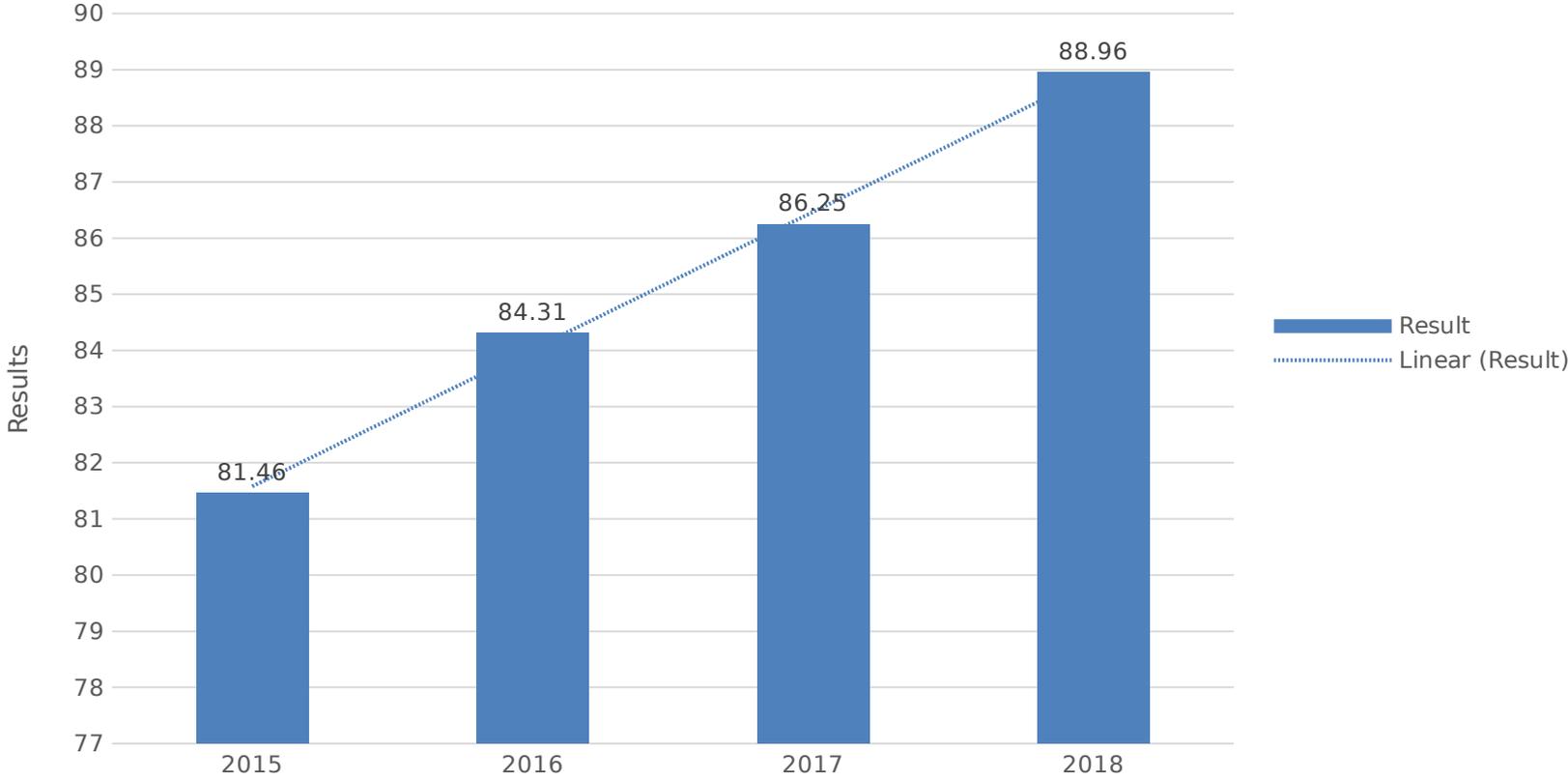


Public H&S Week



We are Proud Campaign Happiness Results for H&S Role (Survey Results)

H&S Role for the last three years



Health & Safety KPI Achievements 2018

Safety

473
Safety
Inspections

69
Surveillance
Visits

39
Risk
Assessment
Drives

40
Evaluation
of
Compliance
Audit

16
Mock Fire
Drill

8
H&S
Contractor
Grading
System

Health

9
Health
Events /
Workshops

230
Health
Inspections

6
Health
Screenings

12
Health
surveys

42
OH&S
Surveillance
Visits

2
Nutritional
Screenings

Health & Safety Training

3
Events /
Workshops

1897
Number of
DEWA Staff
attended
H&S
Training

134
H&S
Training
Sessions
conducted



Health & Safety KPI Achievements 2019 (Q3)

Safety

293
Safety
Inspections

44
Surveillance
Visits

18
Risk
Assessment
Drives

20
Evaluation
of
Compliance
Audit

10
Mock Fire
Drill

6
H&S
Contractor
Grading
System

Health

5
Health
Events /
Workshops

150
Health
Inspections

5
Health
Screenings

8
Health
surveys

31
OH&S
Surveillance
Visits

5
Nutritional
Screenings

Health & Safety Training

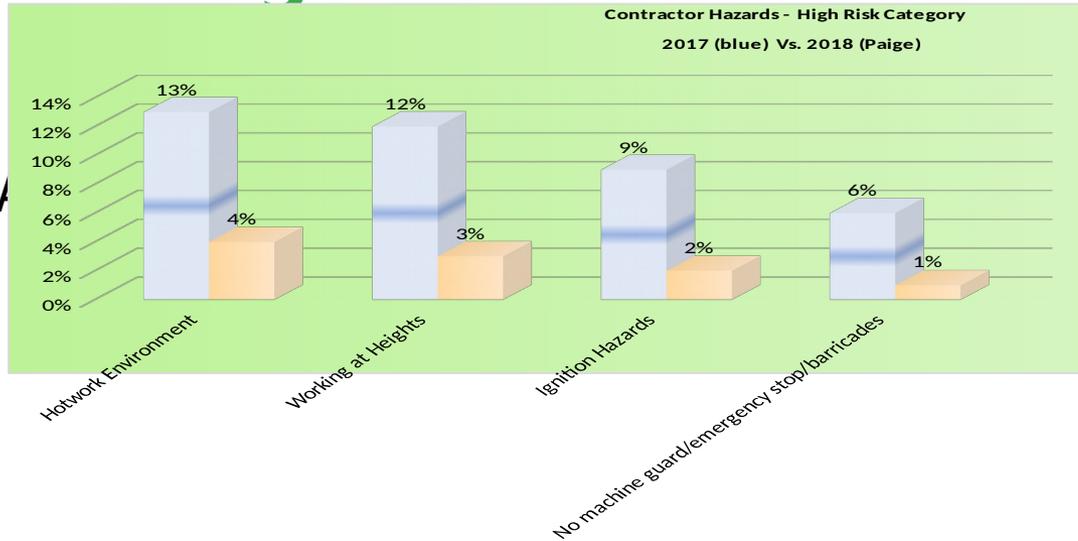
0
Events /
Workshops

1316
Number of
DEWA Staff
attended
H&S
Training

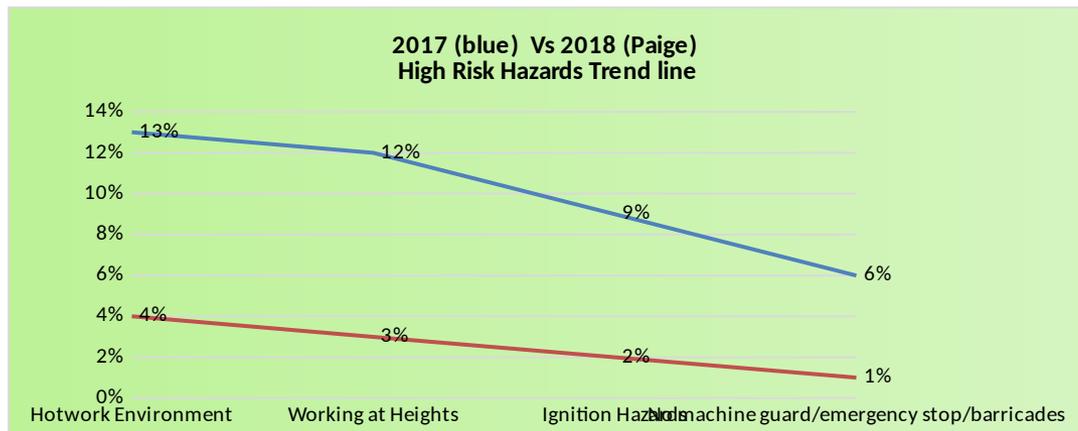
101
H&S
Training
Sessions
conducted



Best of the Best - Contractor Management



A downward trend towards midyear; by end of 2018; 40% of high risk hazards were reduced to 10% moderate category

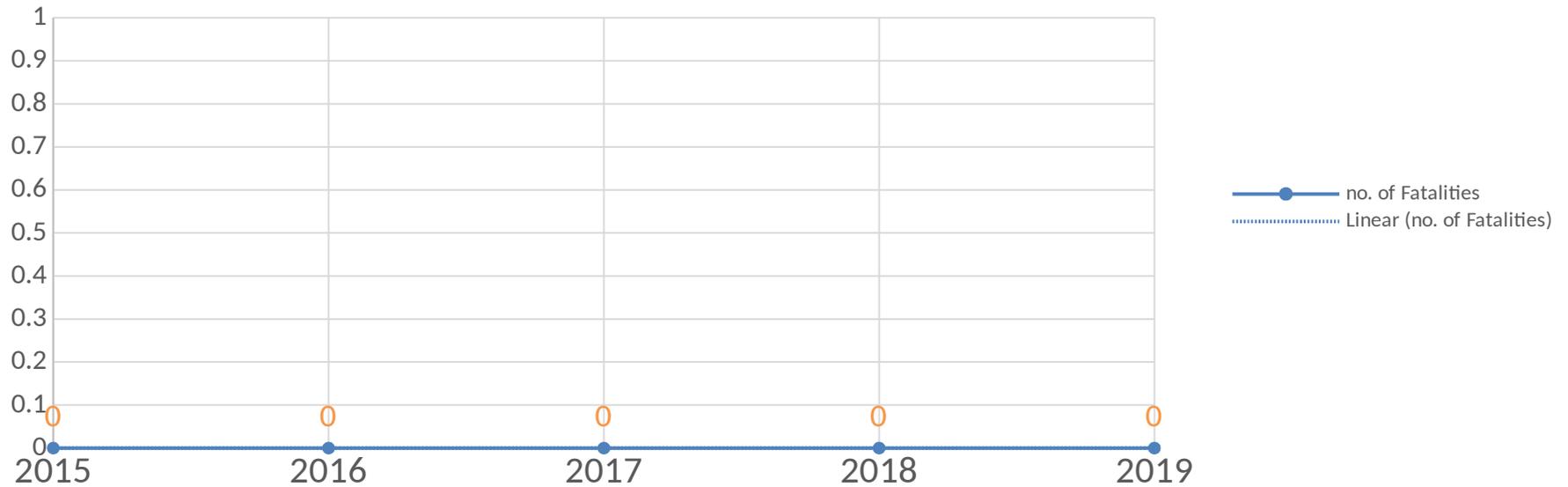


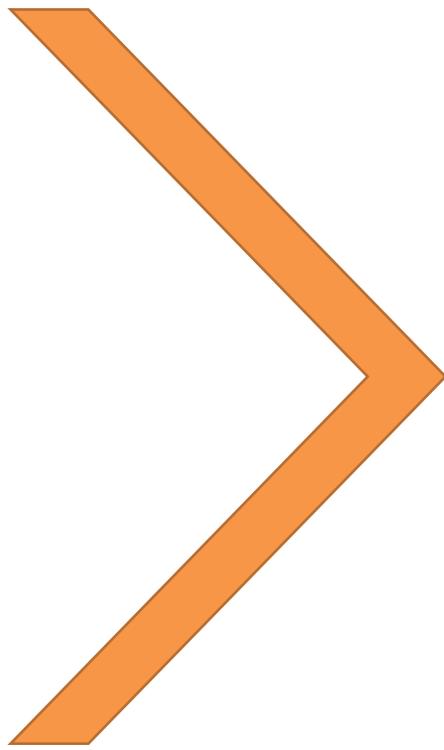
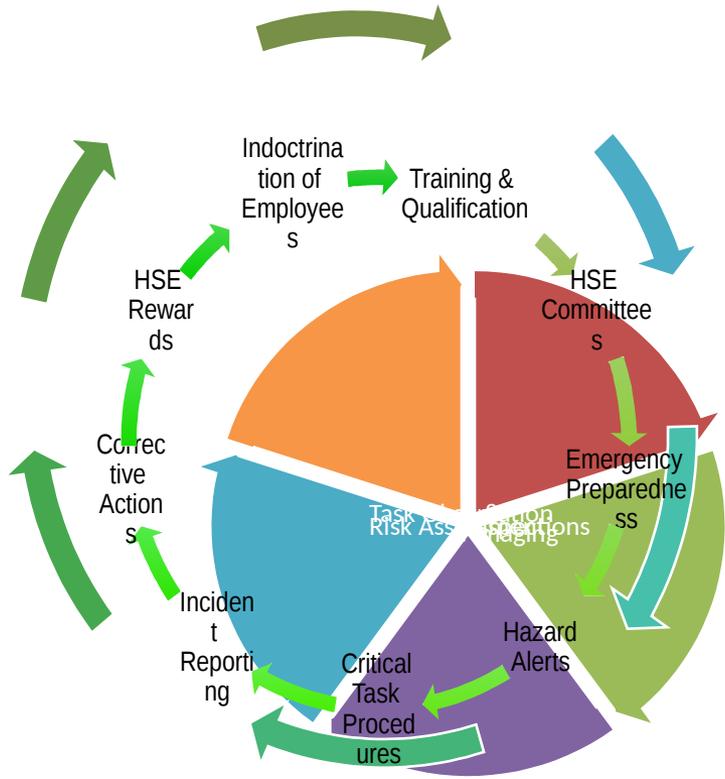
A Visible trend line demonstrating sustainability with improvements

We are Proud

Zero Fatality

no. of Fatalities





Thank you

