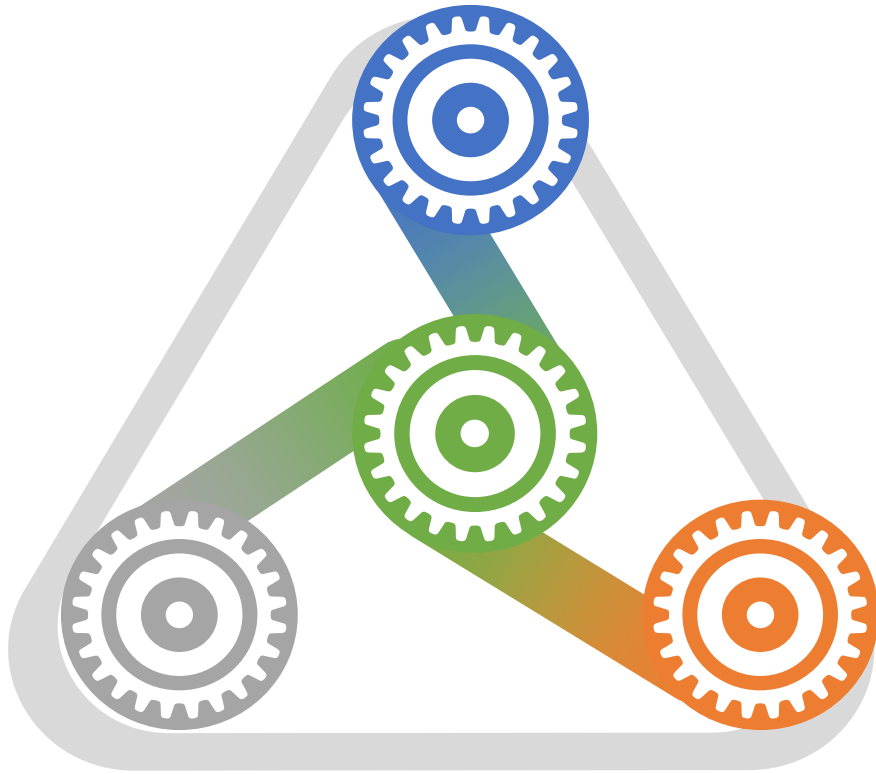




OVERVIEW OF INDUSTRIAL HYGIENE MANAGEMENT IN MALAYSIA

ELAINI BINTI WAHAB
INDUSTRIAL HYGIENE AND ERGONOMIC DIVISION
DEPARTMENT OF OCCUPATIONAL SAFETY AND HEALTH MALAYSIA
20 MARCH 2023

SCOPE



- ☐ Introduction to DOSH
- ☐ Evolution of IH in Malaysia
- ☐ IH Legislation in Malaysia
- ☐ OSH Master Plan 2025
- ☐ Statistic of Occupational Disease
- ☐ IH Strategic Planning 2021-2025

A blue silhouette of industrial buildings and smokestacks, positioned on the left side of the slide.

Introduction to DOSH

DOSH : VISION, MISSION, CORPORATE VALUE AND OBJECTIVE



RESPONSIBILITY

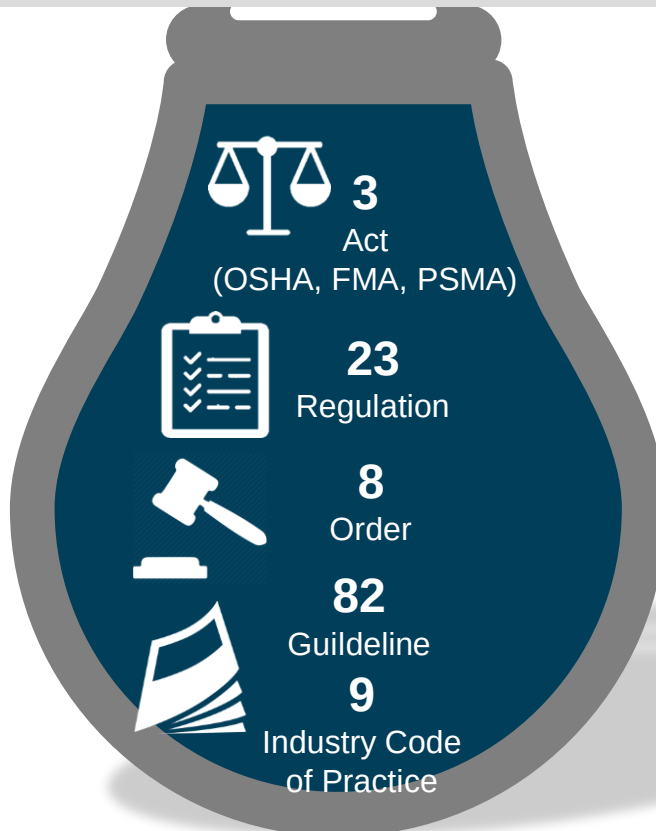
Administer and Enforce Occupational Safety And Health Legislation

DOSH CORE SERVICES

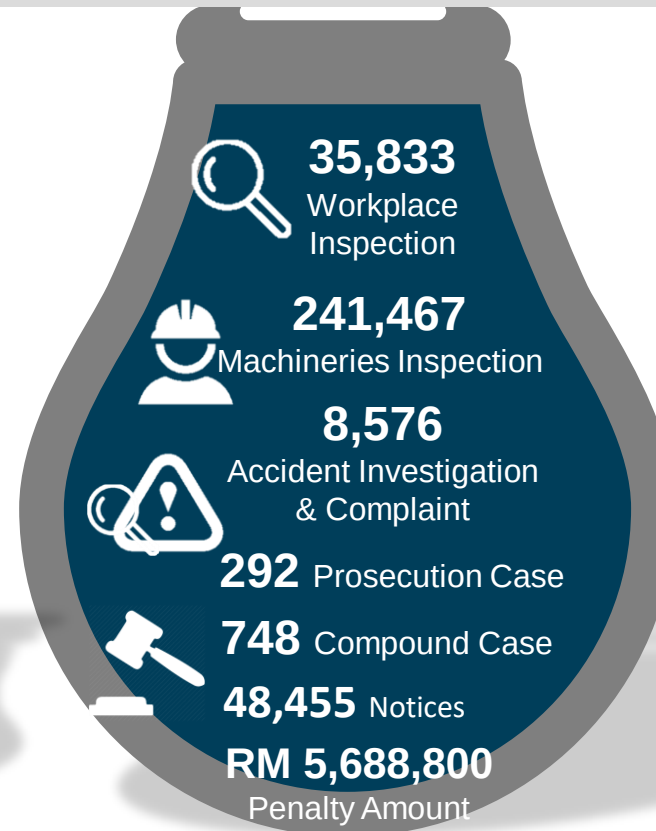
DOSH Data 2022



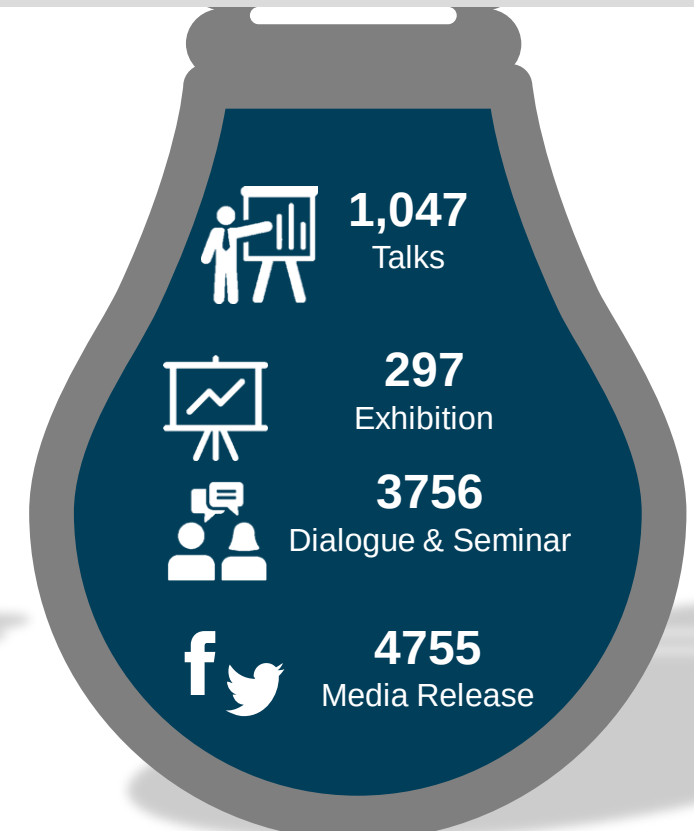
STANDARD SETTING



ENFORCEMENT



OSH PROMOTION



> VISION & MISI



INCLUSIVE OSH – TOGETHERNESS AND COMMITMENT

OSHMP25: VISION

“

Empowering safe and healthy work practices for nation's prosperity

”

OSHMP25: MISI

“

Enhancing stakeholders strategic relations in inculcating OSH practices

”

> KEY PERFORMANCE INDICATOR (KPI)



Lagging Indicator 1

To reduce the occupational death rate to 2.93 / 100,000 employees in 2025

Leading Indicator 1

85% of the workplace audited achieved satisfactory OSH levels



Lagging Indicator 2

To reduce the occupational accident rate to 2.13 / 1,000 employees in 2025

Leading Indicator 2

90% of the workplace which made annual self-assessment declarations have implemented the OSH core programme



Lagging Indicator 3

Increase in occupational diseases and poisoning reporting as much as 30% in 2025

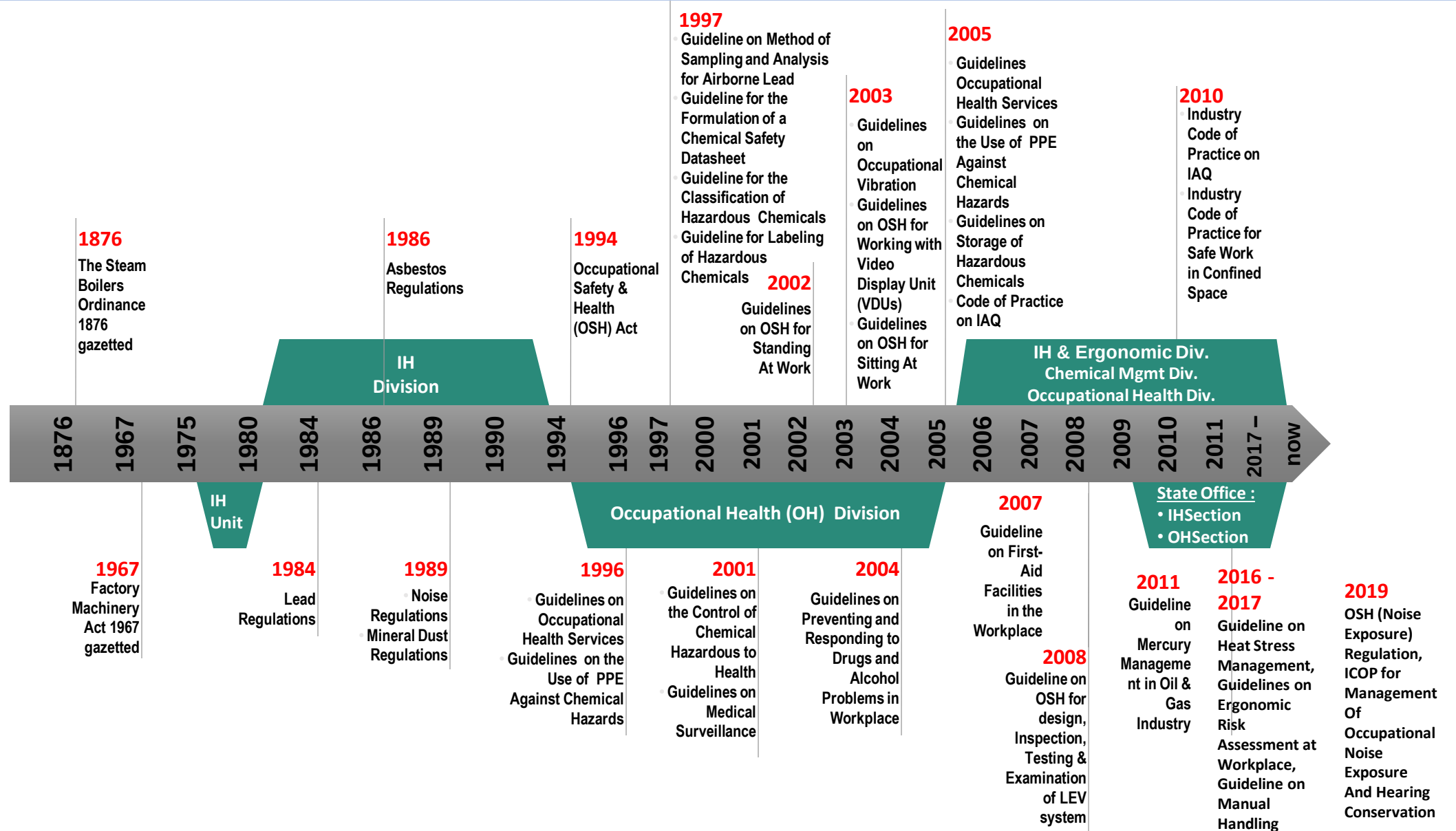
Leading Indicator 3

Increase 20% of OSH NGO perception index towards the level of OSH enculturation in the organization



Evolution of Industrial Hygiene in Malaysia

EVOLUTION OF INDUSTRIAL HYGIENE IN MALAYSIA



A blue silhouette of industrial buildings and smokestacks, positioned on the left side of the slide, partially overlapping the blue background.

Overview of Industrial Hygiene Legal Requirement

DOSH LEGISLATIONS

NO	ACTS	LATEST UPDATED	STATUS
1	OSHA 1994	Act A1648 OCCUPATIONAL SAFETY AND HEALTH (AMENDMENT) ACT 2022 16 Mac 2022	Enforced June 2023
2	FMA 1967	FACTORIES AND MACHINERY (REPEAL) BILL 2020	Depend on OSHA Amendment Enforced
3	PETROLEUM (SAFETY MEASURES) ACT 1984		

IH LEGISLATIONS

REGULATION, ICOP & GUIDELINES RELATED TO NOISE

NO	REGULATIONS/ICOP/GUIDELINES	STATUS	IH SERVICES
1	Occupational Safety & Health (Noise Exposure) Regulations 2019	Into operation June 2019	• Noise Risk Assessor • Audiometric Testing Centre • Noise Training Provider • Noise Trainer • Trained Audiometric Technician
2	ICOP for Management of Occupational Noise Exposure & Hearing Conservation 2019	Into operation June 2019	
3	Guidelines for Control of Occupational Noise 2005	Under Amendment	
4	Guidelines for Audiometric Technician Training Provider	Under drafting	



IH LEGISLATIONS

REGULATION, ICOP & GUIDELINES RELATED TO CONFINED SPACE

NO	REGULATIONS	STATUS	IH SERVICES
1	ICOP for Safe Working in a Confined Space, 2010	Under Amendment	• AGTES • CS Training Provider • CS Trainer
2	Garis Panduan Latihan Pekerja, Pendaftaran Pusat Pengajar dan Pengendalian Kursus Keselamatan dan Kesihatan Pekerjaan di Ruang Terkurung , 2008	Under Amendment	



IH LEGISLATIONS

REGULATION, ICOP & GUIDELINES RELATED TO LOCAL EXHAUST VENTILATION

NO	REGULATIONS	STATUS	IH SERVICES
1	Use and Standards of Exposure of Chemicals Hazardous To Health Regulation (USECHH) 2000	Under Amendment	• Hygiene Technician II (HTII) • HTII Training Provider • HTII Trainer
2	Guidelines On Occupational Safety And Health For Design, Inspection, Testing And Examination Of Local Exhaust Ventilation System 2008	Under Amendment	

IH LEGISLATIONS

REGULATION, ICOP & GUIDELINES RELATED TO ERGONOMICS

NO	REGULATIONS	STATUS	IH SERVICES
1	Guidelines for Manual Handling at Workplace 2018	Into operation 2018	• Ergonomics Trained Person (ETP) • Ergonomics Training Provider • Ergonomics Trainer
2	Guidelines on OSH for Lighting at Workplace 2018	Into operation 2018	
3	Guidelines on Ergonomics Risk Assessment at Workplace 2017	Into operation 2017	
4	Guidelines on Heat Stress Management at Workplace 2016	Into operation 2016	
5	Guidelines on Occupational Vibration 2003	Into operation 2003	
6	Guidelines on OSH for Seating at Work , 2003	Under Amendment	
7	Guidelines on OSH for Working with Video Display Unit (VDU's) 2003	Under Amendment	
8	Guidelines on OSH for Standing at Work , 2002	Under Amendment	
9	ICOP for Management of Ergonomics Risk 202X	Under drafting	

IH LEGISLATIONS

REGULATION, ICOP & GUIDELINES RELATED TO PPE

NO	REGULATIONS	STATUS	IH SERVICES
1	Lead Regulations 1984	Under Amendment	Appointed Conformity Assessment Body
2	Asbestos Process Regulations 1984	Under Amendment	
3	Mineral Dust Regulations 1989	Under Amendment	
4	BOWEC Regulations 1986	Under Amendment	
5	Use and Standards of Exposure of Chemicals Hazardous To Health Regulation (USECHH) 2000	Under Amendment	
6	Occupational Safety & Health (Noise Exposure) Regulations 2019	Into operation 2019	
7	Personal Protective Equipment (PPE) Regulations 202X	Under drafting	
8	Guidelines on the Use of Personal Protective Equipment Against Chemicals Hazards, 2005	Into operation 2005	



A blue silhouette of industrial buildings, including chimneys and storage tanks, positioned above the main text area.

OSHMP 2025 – Trust Strategy 4 Program 4 Empowering Occupational Health

> 7 PRINCIPLES STRATEGIC THRUST OSHMP25

TS 1: Empowering OSH in the public sector.

TS 2: Reinforcing self-regulation practices in the workplace.

TS 3: Promoting OSH education and research

TS 4: Empowering Occupational Health.

TS 5: Increase in OSH compliance in SME sector

TS 6: Enhancement of OSH through technology; and

TS 7: Strengthening OSH in Work-Related Road Safety (WRRS), informal sectors, and future jobs.

SUMMARY OF OSHMP25 PROGRAMMES/ACTIVITIES

7

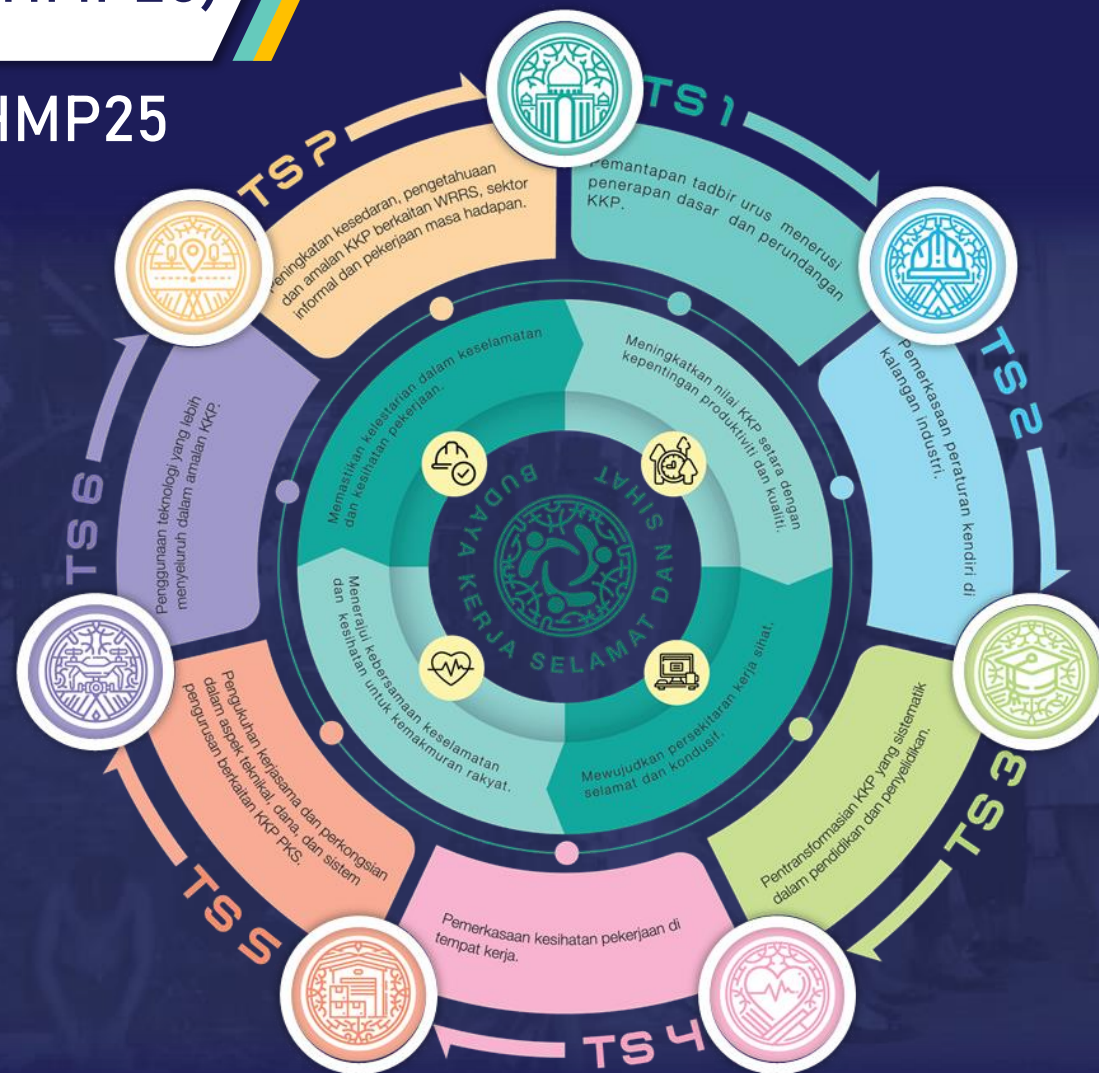
Strategic Thrust

28

Programmes

65

Activities



OSHMP25 Implementation Concept Model

TS 4 : EMPOWERING OCCUPATIONAL HEALTH

Programme 1

Providing competent occupational health practitioners at the workplace to increase performance and access to occupational health services

Programme 2

Comprehensive occupational health risk management

Programme 3

Awareness and information sharing related to occupational health and occupational diseases

Programme 4

Empowering industrial hygiene towards occupational quality improvement

Programme 5

Integrating occupational health risk assessment



OSHMP 2025 TS4P4



TS 4
PEMERHASAAN
KESIHATAN PEKERJAAN

Activity 1

Prepare & implement a comprehensive and effective **industrial health hazard control intervention program** in the workplace.

Activity 2

Expanding the implementation of **SOHELP DIY**.

Activity 3

Enhancing Industrial Hygiene Management (e.g. Ergonomics, Noise, Confined Spaces & Chemicals) in the Workplace.

- **Collaboration of NGOs & Industry Associations** through promotion and training programs, development of standards and monitoring of the effectiveness of legal compliance.
- **Empowering the Management of Ergonomics, Noise, Confined Spaces and Chemicals** in the workplace.
- Create risk mapping of hazardous chemicals.



Programme for Activity 1

Industrial Health Hazard Control Intervention Program

21



12 - 13 OKTOBER 2021
08:00 PAGI - 1:00 TENGAHARI

BENGKEL KAWALAN HAZARD KESIHATAN DI SEKTOR PEMBUATAN BESI BAGI TAHUN 2021

DIRASMIKAN OLEH TIMBALAN KETUA PENGARAH (KESIHATAN)
IR. HAJI MOHD HATTA BIN ZAKARIA

ANJURAN BAHAGIAN
HIGIEN INDUSTRI &
ERGONOMIK, JABATAN
KESELAMATAN DAN
KESIHATAN PEKERJAAN
MALAYSIA

PENCERAMAH
IR HJ ANUAR
MOHD MOKHTAR
OSHChem Consultancy



JABATAN KESELAMATAN DAN
KESIHATAN PEKERJAAN
Kementerian Sumber Manusia

Health Hazard Control Workshop for Metal Industry

Health Hazard Control Workshop for Palm Oil Plantation Sector



20 - 21 OKTOBER 2021
08:00 PAGI - 1:00 TENGAHARI

BENGKEL KAWALAN HAZARD KESIHATAN DI SEKTOR PERLADANGAN KELAPA SAWIT BAGI TAHUN 2021

DIRASMIKAN PENGARAH BAHAGIAN HIGIEN INDUSTRI
& ERGONOMIK HAJAH HABIBAH BINTI SUPOH

ANJURAN BAHAGIAN
HIGIEN INDUSTRI &
ERGONOMIK, JABATAN
KESELAMATAN DAN
KESIHATAN PEKERJAAN
MALAYSIA

PENCERAMAH
IR HJ ANUAR
MOHD MOKHTAR
OSHChem Consultancy



JABATAN KESELAMATAN DAN
KESIHATAN PEKERJAAN
Kementerian Sumber Manusia

Industrial Health Hazard Control Intervention Program



**Health Hazard Control Workshop
for Electronic Sector, 8-9 June 2022**

Programme for Activity 2

BAHAGIAN HIGIEN INDUSTRI DAN ERGONOMIK

PENYERTAAN SOHELP DIY 2023

Kini Dibuka

ELEMEN KEMASUKAN



PENGURUSAN
PENDEDAHAN
BISING



PENGURUSAN
BAHAN KIMIA



PENGURUSAN
ERGONOMIK

KATEGORI TEMPAT KERJA

1

Vendor / Pembekal / Kontraktor kepada tempat kerja yang mencapai Aras Pencapaian Cemerlang dan Tinggi pada SOHELP terdahulu

2

Cawangan/ Anak Syarikat yang dimiliki oleh Syarikat Konglomerat

3

Tempat kerja Sektor Industri Kecil dan Sederhana

4

Tempat kerja dari pelbagai sektor secara sukarela/ dipilih oleh JKKP

Systematic Occupational Health Enhancement Level Program (SOHELP)

3 Main Hazards

Noise

Chemical

Ergonomic

4 Categories of Workplace

Vendor/Contractor
from previous SOHELP
excellent participant

A subsidiary of a
conglomerate
company

SME

Others –
volunteer/selected by
DOSH



TARIKH PENYERTAAN:
30/1/2023- 31/3/2023

TARIKH PERLAKSANAAN :
30/1/2023- 31/1/2024



Penyertaan
SOHELP DIY



Panduan
SOHELP DIY



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Mohd Arianshah Munawir
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Programme for Activity 2

National SOHELP Convention 2022



- 21 July 2022
- Launched by Deputy Minister of Human Resources
- Attended by 200 participants
- 5 industries awarded Excellent SOHELP Workplace
- 3 industries awarded Excellent SOHELP Elements

Programme for Activity 3

Enhancing Industrial Hygiene Management



**Enhancing Noise Exposure Management
in the Workplace Program 2021**

Programme for Activity 3

Enhancing Industrial Hygiene Management



PENGURUSAN AKTIVITI RUANG TERKURUNG

165 PESERTA

**PERKONGSIAN
KES KEMALANGAN
DAN PELAKSANAAN
ICOP CONFINED SPACE**

28 SEPTEMBER 2021 @ ZOOM APPS

Enhancing Confined Space Management in the Workplace Program 2021

Programme for Activity 3

Enhancing Industrial Hygiene Management

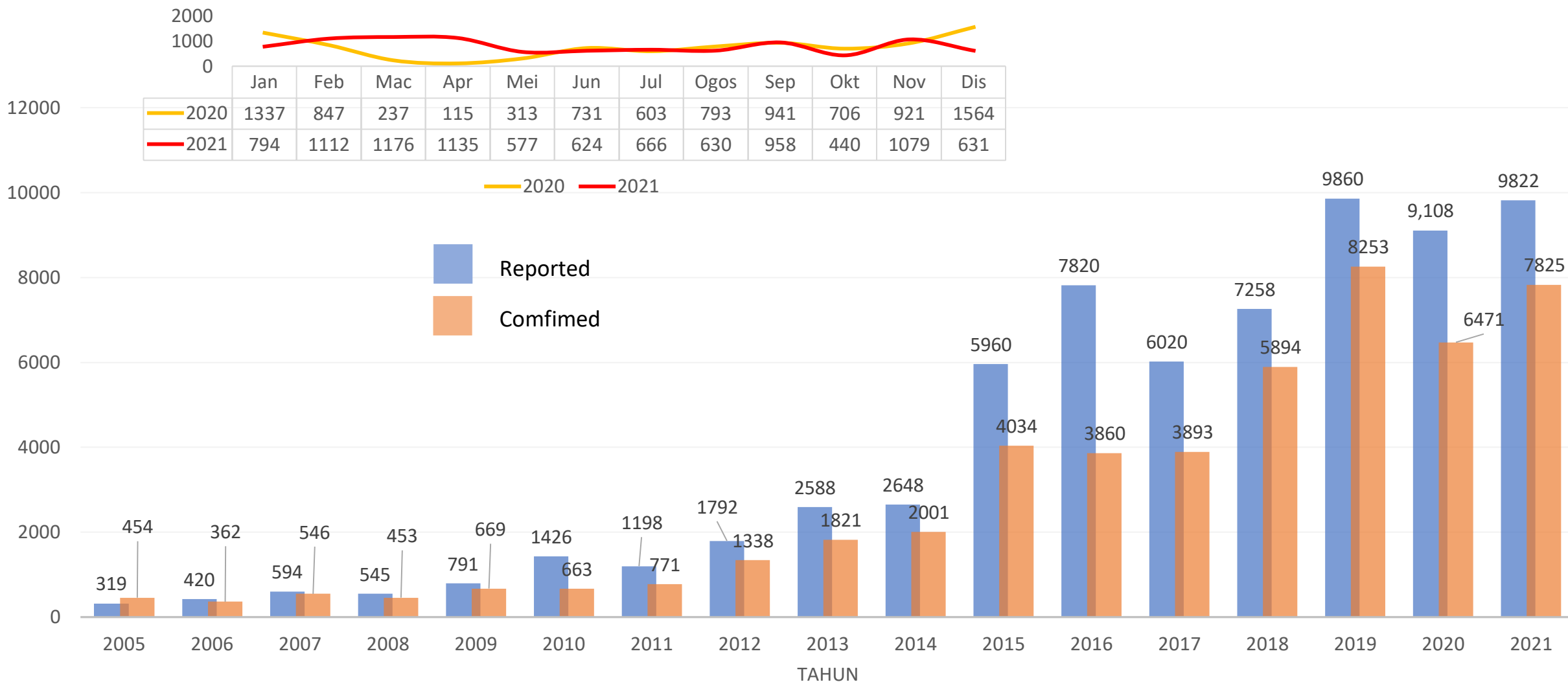


Enhancing Ergonomics Risk Assessment at Workplace 2022

A blue silhouette of an industrial landscape with various factory buildings and smokestacks, positioned on the left side of the slide.

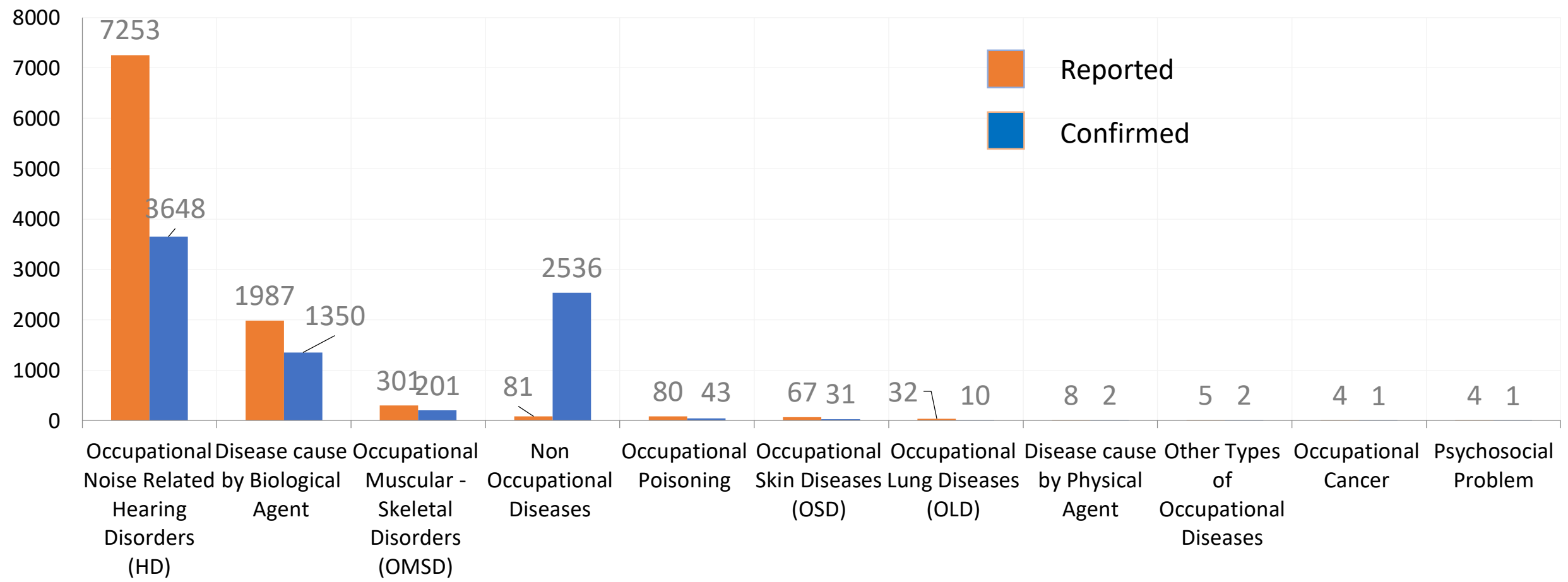
Statistic of Occupational Diseases

STATISTIC OF OCCUPATIONAL DISEASES AND OCCUPATIONAL POISONING (YEAR 2005 TO YEAR 2021)



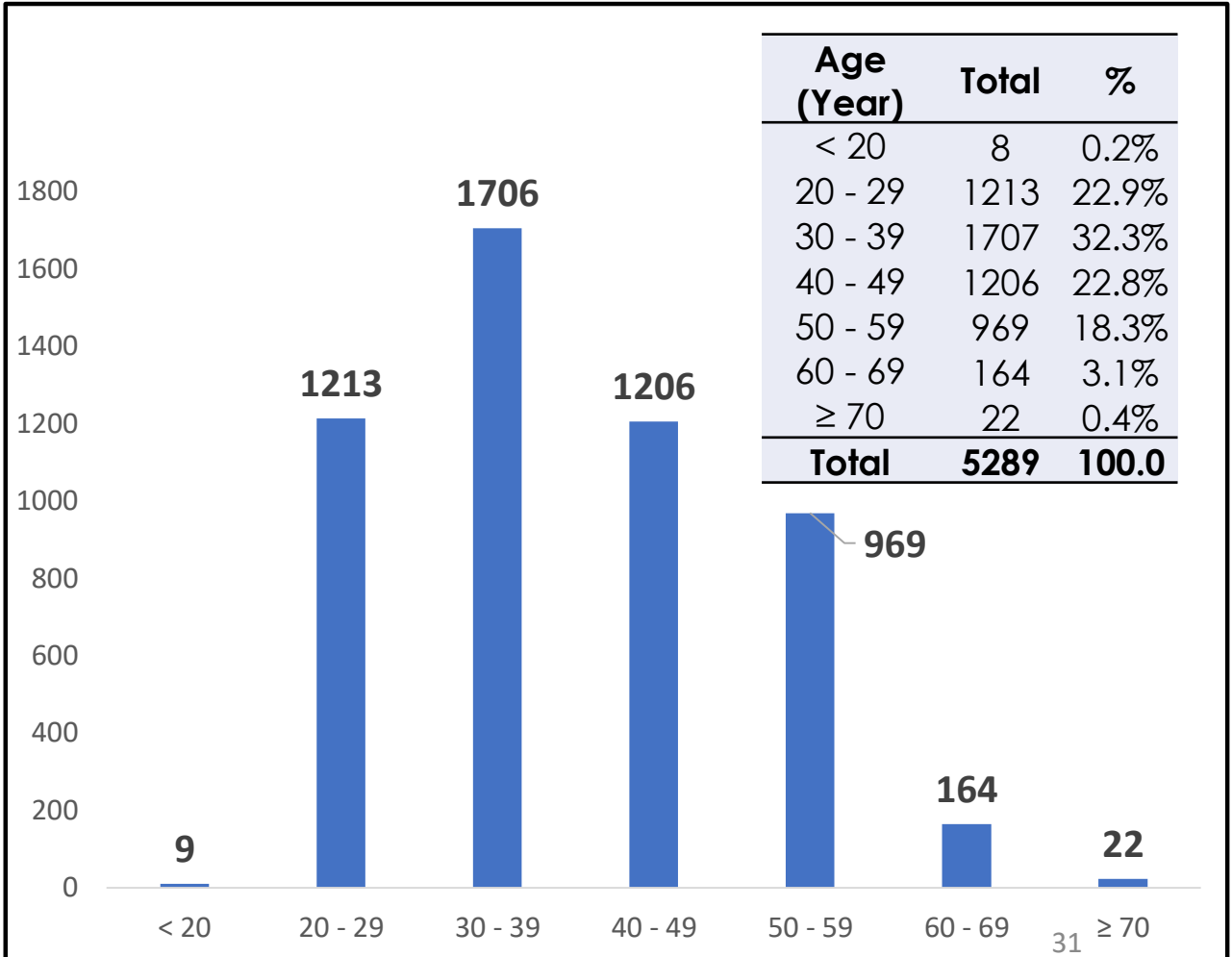
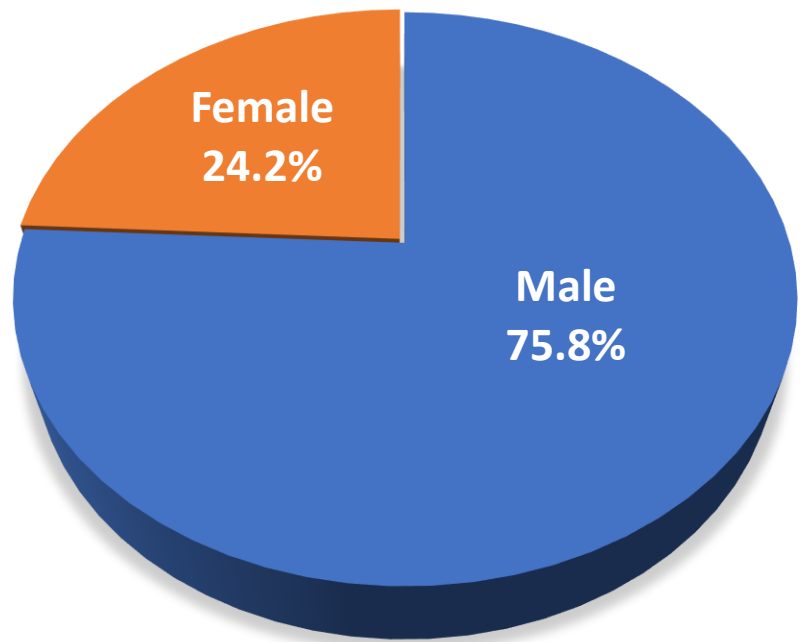
STATISTIC OF OCCUPATIONAL DISEASES AND OCCUPATIONAL POISONING (YEAR 2021)

Statistic of Occupational Diseases and Occupational Poisoning 2021	Status	Total
	Reported cases	9,822
	Confirmed cases	5,289



STATISTIC OF OCCUPATIONAL DISEASES AND OCCUPATIONAL POISONING (BY GENDER AND AGE 2021)

Gender	Total	%
Male	4007	75.8
Female	1282	24.2
Overall	5289	100.0



STATISTIC OF OCCUPATIONAL DISEASES AND OCCUPATIONAL POISONING
(BY SECTOR 2021)

	Manufacturing	Quarrying	Construction	Agriculture	Utilities	Transportation	Wholesale	Hotel & Restaurant	Finance	Public Services
Occupational Lung Diseases	1	0	1	0	0	0	0	0	1	7
Occupational Skin Disesse	14	0	0	3	0	0	1	0	0	13
Occupational Noise Related Hearing Disorder	3202	45	2	151	74	149	0	0	22	3
Occupational Muscularskeletal Disorder	130	0	1	3	11	6	0	4	36	10
Occupational Poisoning	33	0	0	6	0	0	0	0	0	4
Disease cause by Physical Agent	1	0	0	0	1	0	0	0	0	0
Disease cause by Biological Agent	0	0	0	2	6	6	0	0	83	1253
Occupational Cancer	1	0	0	0	0	0	0	0	0	0
Psychosocial Problem	0	0	0	0	1	0	0	0	0	0
Non Occupational Disease	1	0	0	0	0	0	0	0	0	1



Industrial Hygiene Strategic Planning 2021-2025

PUNITIVE ACTION UNDER IH ENFORCEMENT YEAR 2022

NO	TYPES OF PUNITIVE	NUMBER OF PUNITIVE ACTIONS	NUMBER OF IH ENFORCEMENTS
1	Letter of Instruction	4311	27,893
2	Notice of Improvement (NOI)	452	
3	Notice of Prohibition (NOP)	24	
4	Investigation Paper for Prosecution/Compound	39	

INDUSTRIAL HYGIENE COMPETENT PERSON, TRAINED PERSON & COMPETENT FIRM IN MALAYSIA

NO	COMPETENT/TRAINED PERSON AND COMPETENT FIRM	NUMBER OF ACTIVE	WORKPLACES INSPECTED IN 2022
1	Hygiene Technician (LEV)	90	35,833
2	Authorised Gas Tester – Entry Supervisor	4241	
3	Noise Risk Assessor	103	
4	Ergonomic Trained Person	2383	
5	Training Provider Noise	1	
6	Training Provider Confined Space	42	
7	Training Provider Ergonomics	11	
8	Trainer (Noise, CS, Ergo)	144	
9	Audiometric Testing Centre	251	

**cumulative*



INDUSTRIAL HYGIENE STRATEGIC PLANNING 2021-2025

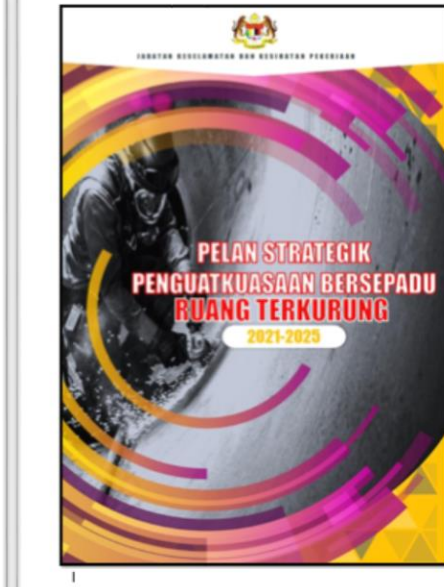
5 IH Strategic Plan



**Noise Enforcement
Strategic Plan
2021-2025**



**Ergonomics
Enforcement
Strategic Plan
2021-2025**



**Confined Space
Enforcement
Strategic Plan
2021-2025**



**PPE Enforcement
Strategic Plan
2021-2025**



**SOHELP DIY
Strategic Plan
2021-2025**

INDUSTRIAL HYGIENE STRATEGIC PLANNING 2021-2025

IH Strategic Plan

- ✓ Noise
- ✓ Ergonomics
- ✓ Confined Space
- ✓ PPE
- ✓ SOHELP DIY



Enforcement Transformation

Standard Setting

Promotion and Publicity

Empowerment OSH Practitioner



INDUSTRIAL HYGIENE STRATEGIC PLANNING 2021-2025

Enforcement Transformation

- Comprehensive and integrated enforcement for noise, ergonomics, confined space and PPE
- Technical support programme
- Comprehensive industrial hygiene enforcement through physical, cognitive and organizational ergonomics.
- Development and implementation of e-SOHELP

Standard Setting

- Development and amendment of legislation related to noise, ergonomics, confined space and PPE.
- Study of Noise and Ergonomics Risk Management Level at High Risk Sector
- Compilation of noise, ergonomics and SOHELP Best Practices.



INDUSTRIAL HYGIENE STRATEGIC PLANNING 2021-2025

Promotion and Publication

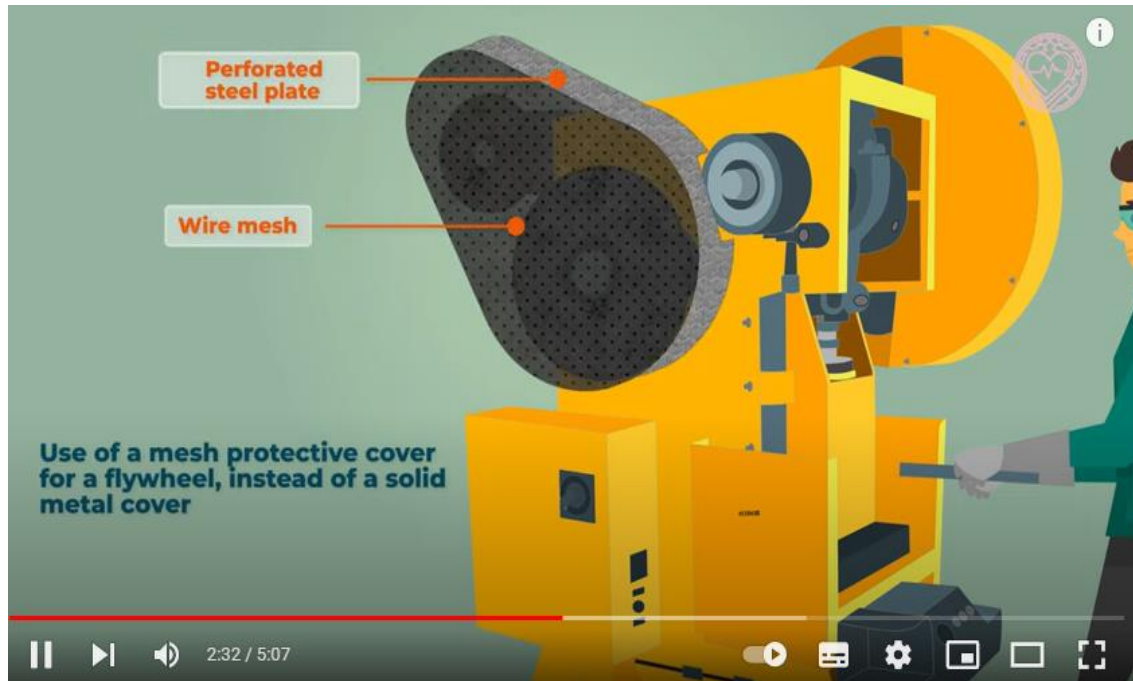
- Development of promotional materials for noise, ergonomics, confined space, PPE and SOHELP.
- Seminar / Briefing on Hazard Awareness and Control of noise exposure, ergonomics and confined space.
- Collaboration of NGOs & Industry Associations through promotion and training programs, development of standards and monitoring of the effectiveness of legal compliance.

Empowerment OSH Practitioner

- Development of training modules and e-learning modules related to noise exposure, ergonomics, confined space, PPE and SOHELP.
- Monitoring the quality of Competent Person Training Centre.
- Purchasing and training of technical equipment related to noise, ergonomics and confined space



PUBLICATION OF INDUSTRIAL HYGIENE INFOGRAPHIC & VIDEOGRAPHIC



Prevention Through Design in Management of Occupational Noise Exposure

<https://youtu.be/bvudoupKeV8>



Prevention Through Design in Ergonomic Issue

https://youtu.be/q4D9PPNh_0A

PUBLICATION OF INDUSTRIAL HYGIENE INFOGRAPHIC & VIDEOGRAPHIC



**Prevention Through Design in Chemical Management
At Workplace**

<https://youtu.be/V-HM8kdoCj8>

Authorised Gas Tester / Entry Supervisor (AGT/ES)

<https://youtu.be/HLDuBCtUHEE>



PUBLICATION OF INDUSTRIAL HYGIENE INFOGRAPHIC & VIDEOGRAPHIC

Browse : www.dosh.gov.my



Publication on 20
Mac 2023



Publication on 27
Mac 2023

PUBLICATION OF INDUSTRIAL HYGIENE INFOGRAPHIC & VIDEOGRAPHIC



Publication on
10 April 2023



Publication on
17 April 2023

PUBLICATION OF INDUSTRIAL HYGIENE INFOGRAPHIC & VIDEOGRAPHIC



Publication on
27 April 2023

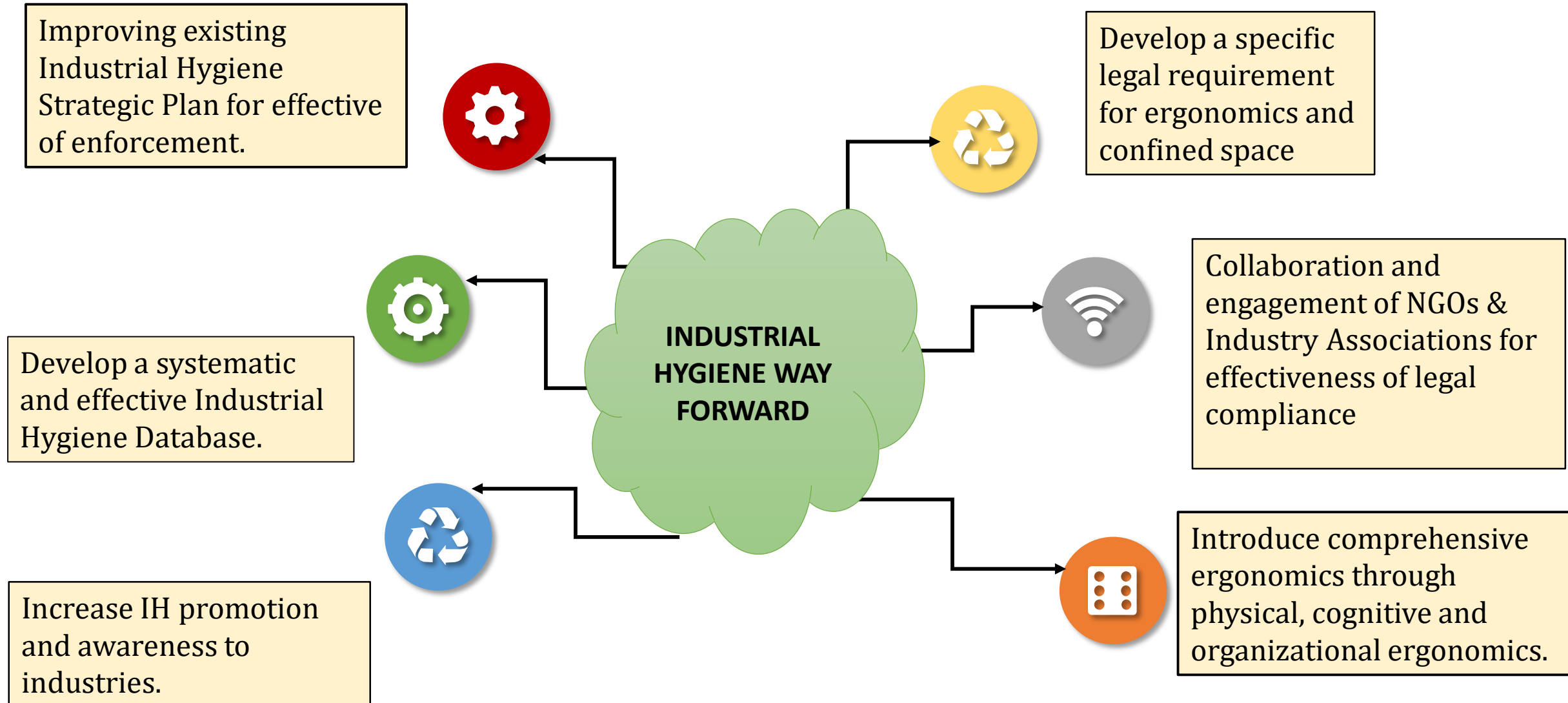


Publication on
1 May 2023

PUBLICATION OF INDUSTRIAL HYGIENE INFOGRAPHIC & VIDEOGRAPHIC - 2022

- 20/4/22 - Video 1 : Perkara – Perkara Perundangan Bising
<https://www.dosh.gov.my/index.php/video-pendek-isu-kebisingan-di-tempat-kerja/2215-video-pendek-pertama-isu-kebisingan-di-tempat-kerja>
- 17/5/22 - Video 2 : Kesedaran Isu Kebisingan Di Tempat Kerja
<https://www.dosh.gov.my/index.php/video-pendek-isu-kebisingan-di-tempat-kerja/2216-video-pendek-pertama-isu-kebisingan-di-tempat-kerja-2>
- 23/6/22 - Video 3 : Kawalan Bising Di Tempat Kerja
<https://www.dosh.gov.my/index.php/video-pendek-isu-kebisingan-di-tempat-kerja/2219-video-pendek-isu-kebisingan-di-tempat-kerja-kesedaran-isu-kebisingan-di-tempat-kerja>
- 25/7/22 - Video 4 : *Do's and Don't's To Noise In The Workplace*
<https://www.dosh.gov.my/index.php/video-pendek-isu-kebisingan-di-tempat-kerja/2221-video-pendek-keempat-isu-kebisingan-di-tempat-kerja>





THANK YOU

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Department of Occupational Safety and Health

www.dosh.gov.my

