

Navigating HSE Challenges and Embracing Future Readiness for Water Industry Resilience

Nurul Hidayah Mohamed Ghozali | Pengurusan Air Selangor Sdn Bhd



NURUL HIDAYAH MOHAMED GHOZALI

**Assistant Vice President II
PENGURUSAN AIR SELANGOR SDN. BHD**

Presenter



EDUCATION BACKGROUND/ PROFESSIONAL CERTIFICATIONS

- Lead Auditor for Integrated Management Systems (IMS) ISO 9001, 14001 & 45001
- Masters of Occupational Safety and Health Risk Management, Open University Malaysia (OUM)
- Bachelor's Degree in Chemical Engineering, Universiti Teknologi Petronas (UTP)
- Diploma in Chemical Engineering, Universiti Teknologi MARA (UiTM)

WORK EXPERIENCE

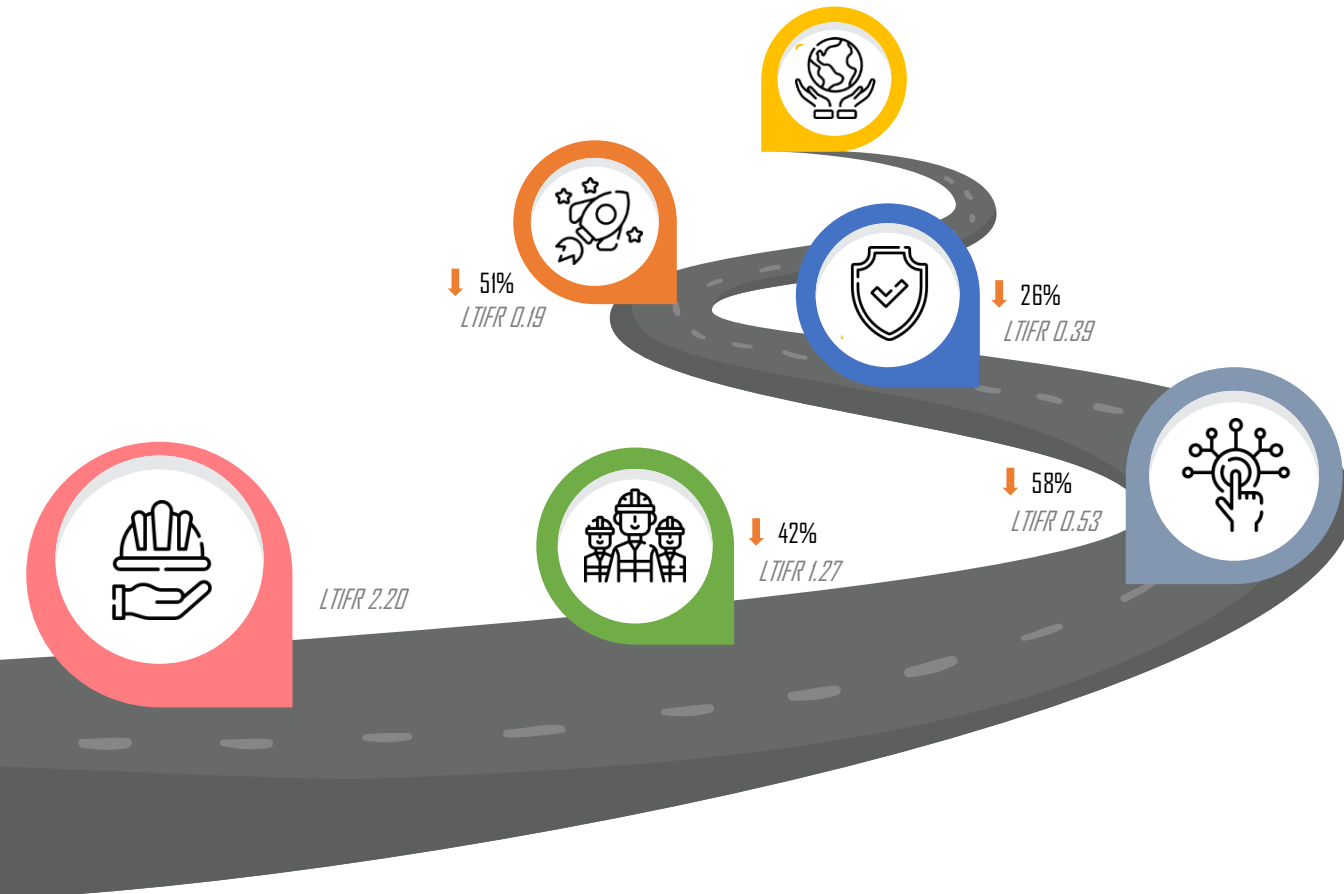
- 5 years as a Process Engineer in a Petrochemical Plant
- 11 years performing roles as an ASEAN and APAC Safety Products Technical, Certification & Regulatory Specialist, Change Management, HSE Assurance and Management Systems

PUBLISHED PAPERS

- "Technology, Tools & Media: Learners' Perceptions Towards the Potentials of Facebook as a Supplementary Virtual Learning Platform at Open University Malaysia (OUM)"
- "The Prevalence of Work-Related Musculoskeletal Disorders (WMSDs) Symptoms Among Workers Performing Manual Handling Activities In The Multinational Plastic Manufacturing Company In Kerteh, Terengganu"
- "Adsorption of Heavy Metals (Nickel) in Wastewater Treatment using Banana Peels"

“Safety is not a gadget, but it is a state of mind”
-Eleanor Everett





Air Selangor HSE Journey

2024

En-Route to HSE Advocacy & Sustainability

2023

Vision Zero: Boosting HSE Culture at Workplace

2022

HSE Empowerment: Elevating Compliance & Strategic Alliance

2021

HSE Transformation: Bridging the Digital Gap

2020

Behavioral Safety: Looking Beyond the Workers

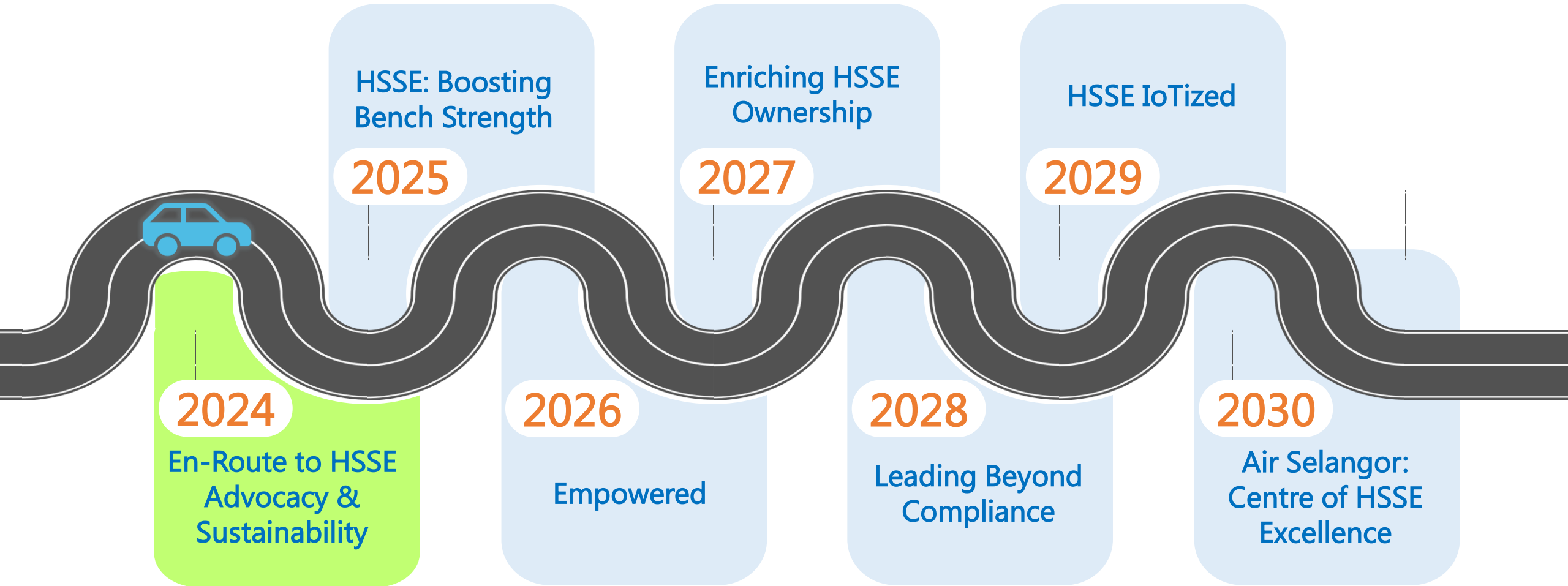
2019

Becoming Brilliant at Basic

Note: LTIFR – Loss Time Injury Frequency Rate



Air Selangor Embracing Future Readiness





Air Selangor HSE Challenges



Air Selangor Navigating HSE Challenges



EXCAVATION



HOT WORK ACTIVITIES



CHLORINE HANDLING



WORKING AT HEIGHT



CONFINED SPACE



HEAVY LIFTING



New and Upcoming Challenges in HSE

Source: 2024 Trends in Health, Safety, and Environmental (HSE) Engineering by Vanessa Oliveira Vieira, June 2023



Increasing use of Digital Technologies



Mental Health Considerations



Focus on Supply Chain Safety & Sustainability



Expanded EHS Compliance and Reporting





Air Selangor HSE Initiatives

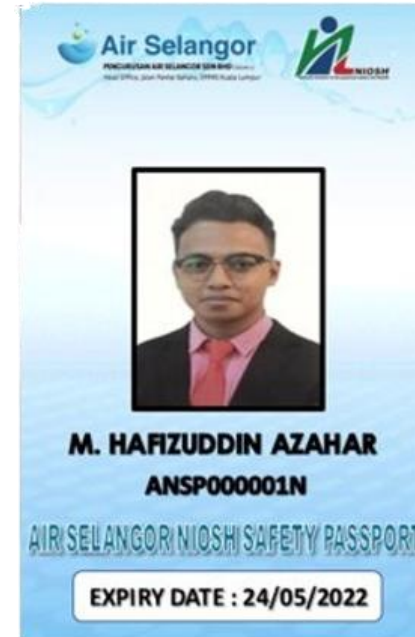


Air Selangor Life Saving Rules (LSR)



Air Selangor tingkat tahap keselamatan kontraktor

Noor Atiqah Sulaiman - Mac 10, 2020 @ 1:12pm
 bhnews@bh.com.my



HSE training program with collaboration
 between
 Air Selangor & NIOSH for Contractors

Leadership Listening Tour (LLT)



- Demonstrate Top Management Commitment
- Session involved Senior Managements, staff representative
- Strengthen commitment and accountability for HSE
- Identify, acknowledge and share good practice
- Increase staff engagement and develop a culture of open communication



Contractors HSE Excellence Award (CONHEXA)



CONHEXA 1.0, 2.0 & 3.0

- ✓ To strengthen and empower contractors with HSE requirements in Air Selangor
- ✓ To assess Air Selangor contractors' HSE compliance in Air Selangor
- ✓ To assess effectiveness of Air Selangor HSE policies and programs
- ✓ To ensure full HSE compliance in Air Selangor

Contractors Engagement Sessions



Covering several topics to further strengthen contractors' knowledge on HSE requirements in Air Selangor

HSE Assurance Audit



Assurance Audits at contractors' offices/ site locations

Evaluation



HSE Compliance Evaluation



Winning contractors awarded during Closing Ceremony of HSE Week



Contractors HSE Excellence Engagements/ Mentor Mentee >200 contractors



Contractors HSE Excellence Site Assessment



HSE Improve And Continue (ICON)

>50 project submissions

Air Selangor

iCON
 Improve & Continue
 2023

ARE YOU UP FOR THE CHALLENGE?

brought to you by,
 Health Safety Environment



Category of Project

8	10	6
4	4	2
1	1	1



HSE Process Improvements



Towards ESG & SDGs Responsibility



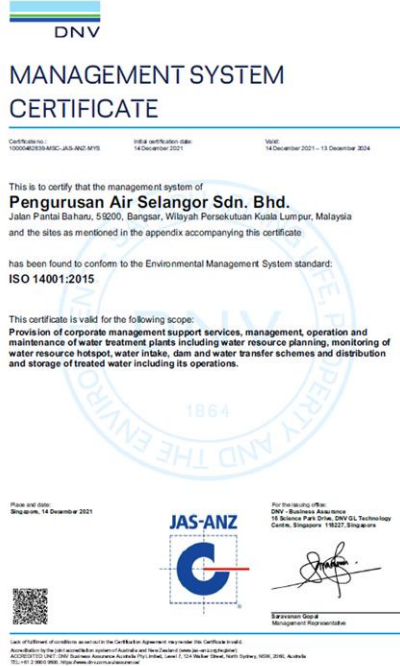
Exhibit HSE Excellence Culture



HSE Management Systems & Awareness

TOTAL **7** ISO CERTIFICATIONS

- ISO 9001:2015 QMS
- ISO 14001:2015 EMS
- ISO 45001:2018 OHSMS
- ISO/IEC 27001:2013 ISMS
- ISO 55001:2014 AMS
- ISO 22301:2019 BCMS
- ISO 37001:2016 ABMS



Refresher Roadshow



Let's Talk ISO



ISO Quiz Winners



HSE e-Learning Module

Air Selangor Pengenalan

Air Selangor

Kehendak Perundangan HSE

- UNDANG-UNDANG MALAYSIA
AKTA 514
AKTA KESELAMATAN DAN KESIHATAN PEKERJAAN 1994
- UNDANG-UNDANG MALAYSIA
AKTA 139
AKTA KILANG DAN JENTERA 1967
- UNDANG-UNDANG MALAYSIA
AKTA 127
AKTA KUALITI ALAM SEKELILING 1974

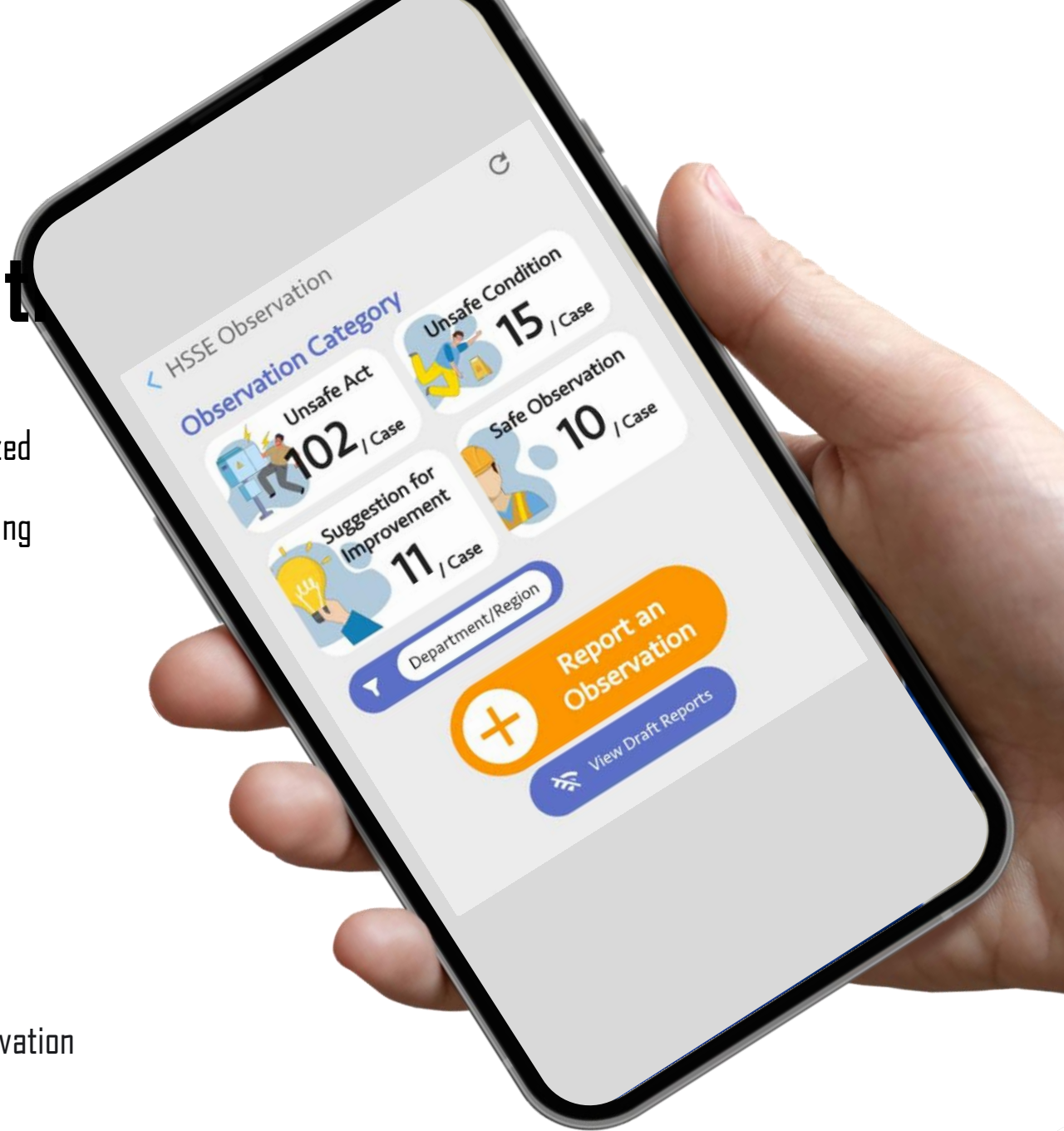
Hak Cipta Terpelihara © Pengurusan Air Selangor Sdn. Bhd.



HSE On The Go & HSSE Observat

Web-based HSE system used for HSE incidents reporting, monitoring with digitized checklists to produce efficient, timely and web-responsive information sharing across Air Selangor.

- ✓ HSE Performance Module
- ✓ Site and Event Safety Inspection Module
- ✓ Permit To Work (PTW) Dashboard Module
- ✓ Unsafe Act, Unsafe Condition, Suggestion for Improvement & Safe Observation





Save A Life Clinic

- Focus the importance of the life saving basic knowledge, not limited to ERT members
- Providing exposure and basic explanation related to life saving in emergency situations



>800 participants



Health & Mental Wellness Matters



Appointed Occupational Health Advisor



Urban Farming



Sketch



Indoor Games



>30 initiatives



Art Therapy



Healing Room



Zumba



“Tak nak kongsi,
Orang tak faham apa aku lalui”

'Sembang Kalau Bimbang'



Pertandingan Mencipta Poster Keselamatan Jalan Raya
 #AirSelangorPanduCermat

TERBUKA KEPADA AHLI KELUARGA WARGA KERJA AIR SELANGOR

JOM MENANGI HADIAH-HADIAH MENARIK

KATEGORI

- A- 15 tahun & ke bawah
- B- 12 tahun & ke bawah
- C- 9 tahun & ke bawah

GARIS PANDUAN

- Reka sebuah poster bersaiz A3.
- Masukkan unsur kekeluargaan dan aktiviti yang berkaitan jalan raya.

SYARAT-SYARAT

- Gunakan bahan mewarna seperti krayon, pensel warna, cat air dsb.
- Saiz poster A3 (297 mm x 420 mm)
- Kapsyen poster tidak melebihi 10 patah perkataan.

3 PEMENANG AKAN DIPILIH BAGI SETIAP KATEGORI

HANTAR SEBELUM ATAU PADA 15 SEPTEMBER 2023, 5:00 PM

Pemenang akan dipilih berdasarkan karya yang paling kreatif & menepati tema

#AirSelangorPanduCermat

Hantar karya anda dalam format .pdf melalui emel: hs@airselangor.com

SERTAI SEKARANG

Sebarang pertanyaan hubungi hs@airselangor.com

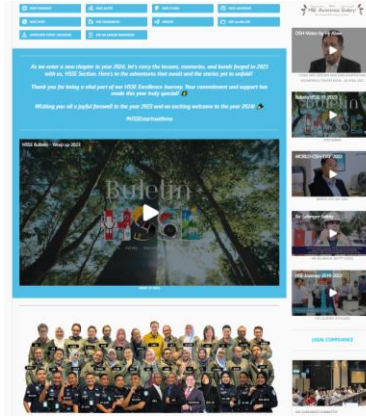
1 RM 150
 2 RM 100
 3 RM 50

- ✓ Road Safety Working Committee
- ✓ "Jom Tunggang Dengan Selamat (JTS)"
- ✓ Touch The Heart Campaign
- ✓ Defensive Riding Training
- ✓ Safety Vest Distribution
- ✓ Engagement with PERKESO and MIROS
- ✓ Sharing of Accident Hotspots
- ✓ Man & Machine Chemistry



HSE Communication

- ✓ HSE Alert, HSE Advisory and HSE Flash
- ✓ HSE Portal (PARSEL) and Viva Engage
- ✓ HSE Ally & HSE Stand Down
- ✓ HSE Handbook



BUKU PANDUAN WARGA KERJA KESEHATAN, KESELAMATAN PEKERJAAN DAN ALAM SEKITAR



Sharing of HSE Best Practices



24

Key Takeaways

5 Quick Wins

10 planned in 2024

9 planned 2025 onwards



- ✓ To share HSE requirements and compliances to students
- ✓ Sharing ideas and HSE management implementation issues in industry

>400 students





- ✓ River Care
- ✓ Recycle For Life (RFL)
- ✓ Food Waste & Composting Workshop
- ✓ Zero Waste Office
- ✓ Trash Tag Challenge
- ✓ Guided Self Regulation



2023 HSSE Awards & Recognitions



1 **MSOSH**

MALAYSIAN SOCIETY FOR OCCUPATIONAL SAFETY & HEALTH (HQ - GOLD CLASS I)

HSSE INFO Air Selangor

MSOSH OCCUPATIONAL SAFETY & HEALTH 41st AWARD 2023

The MSOSH Awards, which we began endavouring in 2019 to promote health and safety among our employees, has generated remarkable success for Air Selangor. We proudly celebrate our accomplishments for year 2023, including 1 GOLD Merit Award, 9 Gold Class I Awards, and 3 Gold Class II Awards.

Our sincerest congratulations and heartfelt appreciation to all who have been instrumental in driving improvements in Health, Safety, and Environment (HSE) aspects.

These achievements perfectly align with the company's vision and aspirations led by our Acting CEO in our Journey 2030 (J30) blueprint, reflecting our commitment to excellence in HSSE within our workplace. Your collective efforts have significantly advanced our mission to create a safe, secure, and environmentally responsible work environment.

We are pleased to share the list of winners for the 41st MSOSH Occupational Safety & Health Award in 2023.

Year	Gold Merit	Gold Class I	Gold Class II
2022	N/A	6	7
2023	1	9	3

GOLD MERIT
Excellent OSH Performance
Northern (Bukit Nanas WTP)

GOLD CLASS I
Very Good OSH Performance

- Head Office
- Kuala Lumpur
- Hulu Langat
- Gombak
- Southern (Semangoh 2 WTP)
- Klang
- Hulu Selangor
- Selangor
- Petaling

GOLD CLASS II
Very Good OSH Performance

- Kuala Selangor
- Kuala Langat
- Sebat Bernam



3 **MiSHA**

MiSHA NATIONAL EXCELLENCE AWARDS ON OSH PRINCIPLE OF PREVENTION (OSHPOP) 2023 - LEADERSHIP AND SAFETY & HEALTH COMMITTEE AWARDS



5 **ANUGERAH PENARAFAN BINTANG SASARAN PENTING**



2 **NCOASH**

KATEGORI ANUGERAH KEMUDAHAN AIR

NATIONAL HEALTH AND SAFETY AWARD AUDIT WINNER (WATER FACILITIES)



4 **RoSPA**



What's Next?

- ✓ HSE Edutainment Approach and Touch The Heart
- ✓ HSSE Podcast
- ✓ E-Permit To Work
- ✓ Implementation of Electronic Management of Change (MOC)
- ✓ HSSE Culture Maturity Survey
- ✓ Fortifying Cradle to Cradle Framework
- ✓ Contractors HSE Excellence Colloquium
- ✓ Conversion of Water Treatment Plant (WTP) Residual Into Topsoil
- ✓ Upskilling HSE Competency & Capability for Non-HSE
- ✓ Prime Minister's Hibiscus Award
- ✓ Smart Wearables



COSH
2024
24th CONFERENCE AND
EXHIBITION ON
OCCUPATIONAL
SAFETY AND HEALTH

SCICOSH
6th SCIENTIFIC CONFERENCE ON OCCUPATIONAL SAFETY AND HEALTH

THANK YOU