

MUHAMMAD IZUDDIN BIN BAHARIN

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PROFILE SUMMARY

Experienced and accomplished Health, Safety & Environment (HSE) Senior Engineer with over 10 years of experience in developing, implementing and monitoring HSE management systems across high-risk industries. Proven track record in ensuring regulatory compliance, leading risk assessments, incident investigations, and driving continuous improvement in workplace safety and environmental performance. Committed to identifying and improving substandard processes, while solving HSE issues. Bringing forth an in-depth understanding of facility management aimed at improving safe work processes and functions. Renowned for driving safety policy development and fostering a culture of proactive safety. A strong leader with excellent communication skills and a commitment to teamwork.

COMPETENCIES & CERTIFICATIONS

Certified Safety and Health Officer (SHO) – DOSH, HQ/25/SHO/00/15756, 2025
Certified Authorized Gas Tester & Entry Supervisor (AGTES) - DOSH, HQ/24/AGTES/00/25644, 2024
Certified Authorized Entrant & Standby Person (AESP) - NIOSH, NW-HQ-AE-3724-V, 2023
Certified First Aider - CERT ACADEMY, 2022
Certified Dangerous Decibels Educator - UNIVERSITI KEBANGSAAN MALAYSIA (UKM), 2022
Certified Internal Auditor of ISO 9001:2015 - Lloyd's Register Quality Assurance, 2022
Certified Internal Auditor of Integrated Management System (IMS) based on ISO 45001:2018 and ISO 14001:2015 - Lloyd's Register, 2020

PROFESSIONAL EXPERIENCE

LOTTE Chemical Titan (M) Sdn Bhd – Pasir Gudang, Johor	June 2025 – Present
Senior Safety Engineer (Occupational Safety & Security)	

- Drive system effectiveness for both ISO 45001 and ISO 14001 through audits and reviews
- Lead employee teams for continuous improvement of EHS goals. Effectively interact with managers and employees at all levels to drive EHS improvements and enable them to meet specific business goals.
- Responsible for total compliance with all applicable federal, state, and local laws, regulations and standards involving safety, fire safety, environment and industrial hygiene.
- Develop and implement plant-wide HSE policies, objectives, and strategic plans or programs on how to achieve the intended goals or outcomes.
- Act as the main liaison with authorities (BOMBA, DOSH, DOE, KPDNHEP) on matters pertaining to HSE including licensing, compliance, audit certification, inspection, accident investigation and any other gaps encountered.
- Lead accident investigation in plant by gathering and analyzing the information, identifying the risk control measures, and implementing the action plan based on Why Tree Analysis, reducing the occurrences of repeated incident by 20%.

- Lead the establishment of new SOP, review and amend existing SOPs and lead the Hazard Identification, Risk Assessment and Risk Control (HIRARC), Environmental Aspect Impact Assessment (EAIA) review, and work instructions related to HSE.
- Manage Contractor Safety Management (CSM) during day-to-day operation including onboarding & induction, monitoring contractor compliance and issuance of Safety Violation Report (SVR) and Safety Warning Notice (SWN) for contractors violated the established rules.
- Plan & coordinate emergency drills including fire and chemical spill scenarios (1 drill/quarter), improving response readiness across departments.
- Key individual responsible for Industrial Hygiene (Chemical, Noise, Ergonomic) Assessment and act as a coordinator to support the implementation of CHRA, NRA & ERA recommended action carried out by Plant Area Owner.
- Key individual responsible for the Chemical Management of Pasir Gudang & Tanjung Langsat complex including the introduction, use, handling and storage of any chemicals as outlined in CLASS Regulations 2013, USECHH Regulations 2000, Pesticides Act 1974 and Poisons Act 1952.
- Conducted daily site inspections and enforced PTW compliance for high-risk activities (Hot work & Confined space) in highly hazardous classified areas.
- Provided HSE support during plant turnaround (TA), managing multiple high-risk activities under tight schedules.
- Act as an observer during the execution of Outside Standard Practice Activity (OSPA) on the implementation of mitigation measures
- Coordinator for monthly Field Risk Assessment (FRA) carried out for different plant areas and monitor on the closure of findings
- Administer the safety budget by planning, monitoring and controlling expenditures to ensure cost-effective delivery within approved budgets.

SD Guthrie International Biodiesel Sdn Bhd – Kuala Langat, Selangor
(formerly known as Sime Darby Oils Biodiesel Sdn Bhd)

June 2018 – May 2025

Health, Safety and Environment (HSE) & Security Executive

- Perform HSE internal audit, workplace inspection, and executing ISO 45001 and ISO 14001 implementations to ensure full compliance to legal and other HSE requirements.
- Maintain Company's HSE policy and propose HSE objectives and targets to the Management.
- Develop HSE Legal Register to address all HSE legal requirements applicable at workplace.
- Prepare and implement Standard Operating Procedure, Work Instruction and Guidelines for HSE Department.
- Manage accident investigation in plant by gathering and analyzing the information, identifying the risk control measures, and implementing the action plan based on Tripod Beta and Root Cause Analysis and subsequently notify and report the incident to DOSH and Management.
- Establish, review and amend SOPs, Hazard Identification, Risk Assessment and Risk Control (HIRARC), Environmental Aspect Impact Assessment (EAIA), and work instructions related to HSE.
- Conduct comprehensive monitoring related to Health, Safety, and Environment (HSE), including scheduled waste management, ambient air quality, boundary noise levels, isokinetic stack emissions, river water quality assessments, Chemical Health Risk Assessment (CHRA), Noise Risk Assessment (NRA), Ergonomic Risk Assessment (ERA), among others.
- Develop and deliver HSE-related training in compliance with legislation requirements as well as continuously promoting safety culture (Monthly HSE performance operational review, HSE Index, SIME card and Near miss reporting).

- Plan and coordinate emergency drills (conducted at least 3 to 4 drills per year) and analyze the response and effectiveness of emergency preparedness.
- Key individual responsible for the execution of Process Safety Management (PSM) across the business unit.
- Manage the budget allocation for HSE department for Operational Expenditure (OPEX) as well as Capital Expenditure (CAPEX).
- Person in Charge (PIC) for HSE during the establishment of Hazard Operability Study (HAZOP) together with consultant during expansion of SD Guthrie International Biodiesel plant.

Perodua Sales Sdn Bhd – Sungai Choh, Rawang, Selangor

July 2016 – May 2018

SHE – Q Executive

- Assist in maintaining OHSAS 18001 Safety Management System and EMS ISO 14001 including document controlling and evaluation of compliance.
- Assist in ensuring compliance to all relevant regulations, corporate ESH and other requirements.
- Assist in liaise with the DOSH, DOE, SIRIM and others related agencies on all ESH related matters.
- Assist in manage accident investigation in plant by gathering and analyzing the information, identifying the risk control measures and implementing the action plan based on Root-Cause Analysis.
- Assist in manage the accident statistic and distribution within the plant by updating the SHE-Q boards.
- Conduct daily safety inspection as well as GEMBA Morning Plant Walk in plant.
- Conduct a safety briefing for new employees, trainees, and contractors concerning the safety regulations within the facility.
- Conduct daily safety toolbox briefing in plant in order to increase environment, safety and health awareness among the workers.
- Oversee 5S initiatives within the SHE-Q Department by systematically arranging all documentation and the work environment in alignment with the 5S methodology: seiri (sort), seiton (set in order), seiso (shine), seiketsu (standardize), and shitsuke (sustain).

EDUCATION & QUALIFICATION

Universiti Teknologi Mara (UiTM) Kampus Puncak Alam

2013 - 2016

Bachelor of Environmental Health & Safety (Hons.) First Class, CGPA 3.73

- UiTM Dean's Award, 2013 - 2016 (Awarded for GPA more than 3.5, awarded in total of 5 out of 6 semester)

Universiti Teknologi Mara (UiTM) Kampus Permatang Pauh, Pulau Pinang

2010 - 2013

Diploma of Environmental Health, CGPA 3.81

- UiTM Vice Chancellor Award, 2010 - 2013 (Awarded for continuously achieving GPA more than 3.5 for all 6 semesters)

KEY ACHIEVEMENTS

Chemical Management

Led the development and revision of chemical - related SOPs, Work Instructions, HIRARC, and EAIA, contributing to effective chemical hazard identification and control across the complex.

PPE Management

Enhanced PPE program effectiveness by integrating PPE requirements (selection, specification and implementation) into SOPs, Work Instructions, HIRARC, and EAIA, ensuring chemical, noise, ergonomic, and process-related risks were effectively controlled.

Biomass Steam Supply

Effective execution of biomass steam delivery from the nearby oil mill to SD Guthrie International Biodiesel has resulted in a reduction in steam supply costs.

Zero Lost Time Injury (LTI)

Expansion of SD Guthrie International Biodiesel (Pistachio Project) was completed without having any Lost Time Injury (LTI) through successful implementation of HSE culture.

Process Safety Management (PSM)

Achieved comprehensive implementation of Process Safety Management through collaboration with various departments.

TRAINING & COURSES

- ISO 45001:2018 and ISO 14001:2015 Determining Risks and Opportunities, 2026
- Technical Training: Preparation of Classification Record Under CLASS 2013 Regulations, UKM LESTARI, 2025
- Crane Safety Inspection & Lifting Gear Training, GAMUDA PLANT OPERATOR SCHOOL, 2025
- Chemical Reactivity Worksheet (CRW) Software, 2025
- Layer of Protection Analysis (LOPA), TRANSFORM, 2025
- Safe Working at Height, SAFETY MANAGEMENT ACADEMY, 2025
- Course for Safety and Health Officer (SHO) - Passed all 4 examination papers
- Course for Noise Risk Assessor (NRA) - National Institute of Occupational Safety and Health (NIOSH), 2023
- NRA PHP Workshop – How to Write an Effective NRA Practical Hearing Protection Solution, 2023
- Industry Code of Practice (ICOP) on Chemicals Classification and Hazard Communication (CCHC), 2023
- Guidelines on Medical Surveillance Program at the Workplace, MOH 2023
- Basic Fire Fighting & Emergency Response Plan Training by BOMBA, 2023
- Course for Initial and Advance Ergonomic Risk Assessment (ERA) for Ergonomic Trained Person (ETP), HFEM, 2022
- Incident Investigation Interviewing Technique Course, 2022
- Process Safety Management (PSM) Awareness Training, Wellkinetics, 2022
- Process Safety Risk Management (PSRM) & Safety Critical Equipment (SCE) Training, Wellkinetics, 2022
- Management of Change (MOC) Training, Wellkinetics, 2022
- On Scene Commander Development Program, ASEC, 2019
- Fire and Rescue Tactical Training, ASEC, 2019
- Building ERT Foundation Training, ASEC, 2019

SKILLS

- Emergency Preparedness and Response
- Process Safety Management
- HSE Management System
- Problem solving
- Expertise in HSE legislations
- Risk Assessment & Risk Management
- Industrial Hygiene Management
- Effective Communication
- Chemical Handling Management
- Incident Investigation & Root Cause Analysis
- Incident Reporting
- Strategic HSE Planning and Implementation

REFERENCES

Nurul Aida binti Jamaluddin

Team Leader, Occupational Safety & Security
Lotte Chemical Titan (M) Sdn Bhd
013 418 4821

Amarul Ridzwan Adi Mazlin

Head, Human Resource & Administration (HRA)
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