



GRAHITO ABHINOWO

HSSE ENGINEER

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EXPERIENCE

2025 - Present

PERTAMINA EP Analyst Occupational Safety

As an Occupational Safety Analyst, responsible for designing, implementing, and evaluating occupational safety programs in high-risk oil and gas environments. Plays a key role in hazard identification, incident investigation, regulatory compliance, and promoting a proactive safety culture to ensure a safe and healthy workplace.

Safety Program Development & Implementation

- Develop annual safety plans aligned with project needs and operational risks.
- Draft and implement safety procedures such as Corporate Life Saving Rules (CLSR), Permit to Work (PTW), Lock Out Tag Out (LOTO), Confined Space Entry, Hot Work, etc.
- Launch and lead safety campaigns to improve awareness and foster a strong safety culture across the site.

Hazard Identification Risk Assessment Risk Control (HIRARC)

- Conduct HIRARC and Job Safety Analysis (JSA) for field activities.
- Identify potential hazards and assess risks at each stage of operations.
- Propose risk control measures following the hierarchy of controls (elimination, substitution, engineering, administrative, PPE).

Site Audits and Safety Inspections

- Perform regular safety inspections to identify unsafe acts and conditions.
- Compile audit findings and provide actionable recommendations to relevant departments.
- Support internal safety audits and coordinate external audits (SKK Migas, ISO 45001 compliance, etc.).

Incident Investigation and Reporting

- Lead investigations of workplace incidents, accidents, and near misses using Root Cause Analysis (RCA), 5 Whys, and Fishbone Diagram.
- Prepare comprehensive incident reports with corrective and preventive action plans.
- Submit incident reports to internal stakeholders and regulatory bodies in compliance with legal requirements.

Safety Training and Awareness

- Deliver routine safety training, including Safety Induction, Emergency Response, Fire Safety, PPE Usage, Working at Height, CSMS, Permit to Work, etc.
- Facilitate daily toolbox talks and weekly safety briefings with employees and contractors.
- Train Emergency Response Teams (ERT) and organize emergency drills.

Safety Performance Monitoring

- Analyze safety data and performance indicators (e.g., TRIR, LTI, First Aid, Near Miss, Safety Observation, etc.).
- Prepare monthly and quarterly safety performance reports for management and regulatory submission.
- Create safety dashboards using Excel to monitor trends and leading indicators.

HSE Management System Compliance

- Implement and maintain the Occupational Safety and Health Management System (SMK3) in accordance with local regulations (e.g., Government Regulation No. 50/2012).
- Ensure alignment with ISO 45001, OHSAS 18001, and national oil & gas safety standards.
- Support integration of HSSE with quality and environmental systems (ISO 9001 & ISO 14001).

Contractor HSE Oversight

- Review and evaluate Contractor Safety Management System (CSMS) documents.
- Monitor and guide contractor teams to ensure compliance with safety standards.
- Conduct joint safety inspections and audit with contractor HSE personnel.

Regulatory and Legal Compliance

- Ensure all safety practices are compliant with national (SKK Migas, KEMNAKER RI) and international standards (OSHA, API, ISO).
- Stay up to date with evolving health and safety legislation and ensure implementation of any changes.
- Assist with the preparation of documentation for safety certifications and regulatory audits.

IPermit to Work (PTW) Supervision

- Review and validate Permit to Work applications, ensuring proper hazard identification and mitigation controls.
- Monitor high-risk activities (hot work, confined space, working at height, electrical work) for safe execution.
- Ensure permit closure procedures are followed to prevent residual risks.

Stakeholder Engagement and Safety Leadership

- Collaborate with operations, engineering, and maintenance teams to embed safety into project planning and execution.
- Act as safety advisor in project meetings and risk assessment sessions.
- Promote a “zero incident” culture through leadership visibility and consistent communication.

Well Intervention and Drilling Safety

- Support HSE planning for high-risk activities such as well interventions, rig moves, and hydraulic fracturing.
- Participate in rig-site safety inspections, pre-job safety meetings, and SIMOPS (Simultaneous Operations) assessments.
- Ensure compliance with drilling safety standards including API RP 54 and IADC guidance.

Project HSE Documentation & Closeout

- Compile comprehensive HSE documentation
- Conduct management system and recommend improvements for future projects.

Cross-Functional Collaboration

- Interface with departments such as Engineering, Operations, Environmental, Security, and Medical to ensure a holistic safety approach.

2023 – 2025

PERTAMINA EP Officer Safety

- Planning, implementing, evaluating, and executing HSSE work programs, especially in managing the safety management system and overseeing Safety Aspects to cultivate a Pro-Active culture towards a Generative one in relation to the company's business processes.
- Has expertise in managing company budgets and operational activities, as well as developing a work and HSSE culture with an occupational safety management system and good environmental management for **more than 10 years**.
- Planning, implementing, supervising, analyzing, and evaluating the management of HSSE aspects; particularly safety, environment, and emergency response. This also includes cost efficiency and implementation realization for **more than 10 years**.
- Understanding operations related to Safety Environment Critical Equipment (SECE) for more than 10 years.
- Implementing, evaluating, and providing solutions to issues related to the management of occupational safety and process management systems, including personnel (HR), equipment, budget, operations, and the environment.
- Identifying potential risks and developing occupational safety procedures (K3) in collaboration with relevant functions. Supervising the implementation of HSE (Health, Safety, and Environment) standards to support and manage safe, secure, and efficient operations for more than 10 years.

- Implementing and developing programs to enhance worker competency standards related to HSSE aspects.
- Has expertise and experience in implementing Quality Improvement for Business Partners through the Contractor Safety Management System (CSMS) (as an advisor and evaluator in the context of Occupational Health, Safety, and Environment (K3L) in every stage of the Full Cycle CSMS to ensure the implementation of K3L standards for more than 10 years).
- Implementing, evaluating, and providing problem-solving solutions and recommendations related to continuous improvement proposals for preventive management of emergencies and crises for over 10 years.
- Managing the readiness of equipment in emergency conditions by conducting training and emergency drills for the relevant teams, as well as monitoring and evaluating the competency fulfillment of the Safety and Emergency Teams for **over 10 years**.
- **Improvement of Safety Culture & Zero LTI (Lost Time Injury) :**
 - Occupational Health and Safety Month Observance, Training for Front Line Supervisors.
 - Upskilling Safety Culture, Implementation of Safe Work Practices (SWP) & CLSR (Critical Life Saving Rules).
 - Workshop and ToT (Training of Trainers) One SIKa SHU for each Function.
 - Management of Safety Observations & Interventions.
 - Standardization and socialization of the Stop Work Authority (SWA) practice.
 - MWT, LSV, and the HSSE Committee as Commitment and Leadership Management for Occupational Safety.
 - Implementation of V&V (Verification & Validation) and IHSB (Integrated Health, Safety, and Environment) for Supervisor level.
 - Improvement of TEMAN KARIB implementation.
 - Safety Patrol on operational work in Bunyu, particularly critical and high-risk tasks.
- **Improvement of Process Safety Management :**
 - Upskilling Process Safety Training for personnel involved in safety processes.
 - Best practice sharing program for the implementation of PSAIMS
 - Implementation of HAZID and HAZOP for Rig Services.
 - Implementation of simplified bow tie for Major Accident Hazards (MAH).
 - Coordination for implementing of investigation training for personnel involved in process safety.
- **Improvement of Project Safety Management.**
 - Management of CSMS (Contractor Safety Management System) Project.
 - Monitoring of HSSE (Health, Safety, Security, and Environment) Project Performance.
 - Safety Patrol on project work.

- **Improvement of Full Cycle CSMS (Contractor Safety Management System) Compliance :**

- Training and Certification of CSMS Auditor.
- Monitoring and evaluation of the implementation of the CSMS Online System.
- Regular agenda for CSMS Coaching Clinic every Thursday.
- Collaboration program to improve the implementation of PSB, PB, PA involving contract users.
- Safety Communication Program (Forum FKMK).

2014-2023

- **PERTAMINA EP Officer Environment**

Planned, implemented, supervised, analyzed, and evaluated the entire management of environmental aspects to ensure the company complies with applicable regulations, both external and internal, and prevented negative impacts on the environment, thereby supporting the company's business processes. This includes the implementation of cost realization, risk management plan, building HSSE culture, pollution prevention, emergency response preparedness, environmental compliance (AMDAL, UKL UPL, environmental permits), environmental management system, energy efficiency, hazardous waste management, emission reduction, biodiversity, and water conservation. **(TANJUNG FIELD & BUNYU FIELD)**

ACHIEVEMENT

- The Best Safety Performers PHI Awards 2024, kategori Field PHI
- The Best Safety Performers PHI Awards 2023, kategori Field PHI
- PROPER "Beyond" category with the PROPER GOLD award (2022)
- PROPER "Beyond" category with the PROPER GREEN award (2014-2017)
- CIP Gold category (2024) FT Prove Bunyu Artificial Mangrove Tide (BAMT) at Regional 3 (PHI)
- CIP Gold category (2023) PC Prove Good Mixer at Regional 3 (PHI)
- Achieving Zero LTI (Lost Time Incident) (2024)
- Achieving Zero LTI (Loss Time Incident) (2023)
- Soebroto Award in the Energy Sector (Special Innovation) (2023)
- As a patent innovator from the Directorate General of Intellectual Property, Ministry of Law and Human Rights of the Republic of Indonesia (DIRJEN Kekayaan Intelektual Kementerian Hukum dan HAM RI) :
 - Plastic Waste and Used Cooking Oil Processing Device Non-Exhaust Gas as Raw Material for Paving Blocks and Road Repair
 - Method for Tackling Circulation Loss in Perforated Wellbore in Oil and Gas Wells
 - Mangrove Seedling Method Using Freshwater Tidal Pond Mechanism and Artificial Substrate
 - Clean Water Treatment Process Using Backwash Wastewater

- Company Award - 07 Desember 2020 "Peserta Forum Sharing Continuous Improvement Program (CIP) 2020 Tingkat Field.Asset 5 - FT Prove Fire Ground (Bunyu Field)Non Category "
- Company Award - 19 September2019 "Non Kategori Peserta Forum Presentasi CIP Tingkat Field.Asset 5 Tahun 2019 - FT Prove Pantang Pulang Sebelum Padam Field Bunyu"
- COmpany Award - 19 September2019 "Non Kategori Peserta Forum Presentasi CIP Tingkat Field.Asset 5 Tahun 2019 - FT Prove Thanos Field Bunyu "

PAPERS

- **2023**

PATEN : Plastic Waste and Used Cooking Oil Processing Device Non-Exhaust Gas as Raw Material for Paving Blocks and Road Repair

- **2023**

Sustainable Innovation For Oil and Gas Production

- **2021**

Environmental Innovation for Sustainable Oil and Gas Production

- **2021**

Green Emerald of Kalimantan, Preserve the Earth of Kalimantan through Biodiversity Conservation

- **2019**

Sustainable Livelihood Perspective on Rural Development in Pulau Bunyu (Pertamina EP Bunyu Field) - Jurnal

CERTIFICATION

- Professional Certificate in Management for Environmental Management System
- Professional Certificate for Air Pollution Responsibility (MPPU)
- Professional Certificate for Water Pollution Control Responsibility (MPPA)
- Professional Certificate in Monitoring and Analysis of PLB3 (MPLB3)
- Professional Certificate in Evaluator of Life Cycle Assessment (LCA)
- Professional Certificate for H2S Gas Hazard Mitigation Officer
- IMO Level 1 Certificate in Oil Spill Response
- CQI and IRCA Certified ISO 14001:2015 Lead Auditor Certificate
- Incident Investigation Training Certificate
- PSC Budgeting & Reporting Training Certificate (POD, WP & B, FQR, AFE, COR AFE, PIS, & PPP)
- Scaffolding Inspector Training Certificate
- Confined Space Entry & Rescue Certificate
- HazOps Training Certificate

TRAINING

- **2023** Respectful Workplace (Mobile Learning)
- **2023** Basic Sea Survival
- **2023** Fundamental Behaviour Based Safety (BBS) (Mobile Learning)
- **2023** PSC Budgeting & Reporting (POD, WP & B, FQR, AFE, COR AFE, PIS, & PPP)
- **2022** Incident Investigation Batch 4
- **2022** Procedure for Preparing Scope of Work (SOW) and Owner Estimate (OE) Calculation
- **2022** Life Cycle Assessment
- **2021** Value Based Development Program- AKHLAK (MobileLearning)
- **2021** Water Pollution Management Certification
- **2021** P3 Water Pollution (Pengendalian Pencemaran Air)
- **2021** Waste Management Certification
- **2021** Management of Hazardous and Toxic Waste (B3)
- **2021** Advanced HSSE Mandatory Training
- **2020** E-Learning : Senior Management Development Program (SMDP)
- **2020** ToT HSSE Demo Room
- **2020** Introduction Of Mandatory For Offshore Personnel
- **2020** Scaffolding Inspector Training
- **2020** HazOps
- **2020** Confined Space Entry & Rescue
- **2019** Basic Sea Survival
- **2018** Training for Air Pollution Responsibility Officer (PPU)
- **2017** Oil Spill Response IMO Level 1
- **2017** Workshop HIRARC, PEKA Observasi dan HORSE
- **2016** Workshop CIP & KOMET Tanjung Field
- **2016** Upskilling CSMS, HSE Plan, SIKAJSA
- **2016** Workshop Audit Surveillance Sistem Manajemen ISO OHSAS Field Asset 5 Tahun 2016 Batch 2
- **2015** ISRS7 OmegaAssessment In HouseTraining
- **2015** Advanced HSE In House Training
- **2015** Awareness ISO 9001:2008, ISO 14001:2004 & OHSAS 18001:2007 dan Internal Audit
- **2015** Contractor HSE Management System (CSMS)
- **2014** IMO level 1 Training
- **2014** Junior HSE Mandatory Training

EDUCATION

- **Institute Technology of Sepuluh Nopember**
Bachelor's Degree in Electrical Engineering, 2011-2013
- **Institute Technology of Bandung**
Professional Bachelor's Degree in Environmental Engineering, 2024-2025
- **University of Indonesia**
Master Candidate in Department of Occupational Health and Safety (OHS), Faculty of Public Health, 2024-present

OTHER EXPERIENCE

- Ikatan Ahli Teknik Perminyakan Indonesia (IATMI)
Connecting academics with the industrial community.
Developing and conducting training and raising awareness for the public and the industrial sector, particularly in areas related to the oil and gas industry (2014-Present)
- Mei 2024 Keynote Speaker at the Bunyu Environment Youth Gathering (BEYG) 2024
- April 2023 Keynote Speaker at the Bunyu Environment Youth Gathering (BEYG) 2023
- Mei 2022 Keynote Speaker at the Bunyu Environment Youth Gathering (BEYG) 2022
- April 2021 Keynote Speaker at the Bunyu Environment Youth Gathering (BEYG) 2021
- Jury for the Appropriate Technology (TTG) Competition Tingkat Kecamatan, Kabupaten Bulungan (Pemerintah Daerah)

SKILLS

- HSE
- Risk Register
- Risk Assessment
- Risk Analysis
- Risk Management
- Environment Management Systems ISO 9001
- Environment Management Systems ISO 14001
- Environment Compliance
- Environment Strategy
- Waste Management
- Waste Water Treatment
- Hazardous Waste Management
- Oil Spill Response Preparedness
- Oil Spill Contingency Plan
- Emergency Need Analysis
- HIRARC
- Fire Protection System
- Emission Reduction
- Procurement
- HSE Budgeting & Planning
- Sistem Manajemen Keselamatan
- Safety Culture