

Md Towfiq Elahi

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Professional Summary

Petroleum and Mining Engineering graduate with hands-on experience in Occupational Health & Safety (OHS) in a manufacturing environment. Skilled in risk assessment, ISO 45001 auditing, digital safety solutions (such as PPE tracking and incident mapping), and regulatory compliance. Passionate about applying my technical foundation and practical safety expertise to contribute to a safer, more efficient energy sector—especially within the oil and gas industry.

Academic Qualifications

Shahjalal University of Science & Technology (Sylhet, Bangladesh) Feb 2018 – Jan 2024
B.Sc. in Petroleum & Mining Engineering;

Awards & Activities:

- Silver award – Virtual poster competition, 2020
- Thesis: Mineral identification using convolutional neural network: A Deep Learning Approach
- Volunteer activity: President, SUST spe (Society of Petroleum Engineers) student chapter

BCIC College (Dhaka, Bangladesh) Nov 2015 – Apr 2017
Higher Secondary School Certificate, Science, 2017

Monipur High School & College (Dhaka, Bangladesh) Jun 2004 – May 2015
Secondary School Certificate, Science, 2015

Work Experience

JMI Cylinders Ltd (Sitakunda, Bangladesh) Jun 2024 – Present
Executive – OHS (Operations)

Key Areas: ISO 45001 Auditing, HIRA, Safety Training & Mock Drills, PPE Monitoring, Accident Investigation, Regulatory Compliance

- Conducted regular toolbox talks, safety audits, and mock drills to strengthen safety culture and emergency readiness. Developed practical, digital-first OHS training modules, making safety education accessible anytime through a web-based platform.
- Designed and implemented a PPE monitoring web application, enabling monthly tracking of PPE distribution per employee; introduced a smart feature to trace safety shoe issuance history, ensuring transparency, accountability, and improved resource planning.
- Created an interactive accident visualization web map that plots incidents by location and month, including heatmaps to highlight accident-prone zones, enhancing data-driven decision-making and targeted safety interventions.
- Led OHS documentation initiatives, gaining hands-on experience with ISO 45001 audit processes; ensured alignment with both international standards and local compliance requirements such as the Bangladesh Labour Law and BNBC (Bangladesh National Building Code).
- Responsible for monthly inspection of fire extinguishers and the fire pump room to ensure operational readiness. Collaborated with the maintenance team to conduct regular equipment inspections and report any safety concerns for corrective action.

Certification & Training

- **ISO 45001:2018 Certified Internal Auditor (EHS Expert)**
 - Learned key aspects of OHSMS, internal audit techniques, non-conformity detection, root cause analysis, and corrective actions as per ISO 45001 standards.
- **Industrial Safety Management & Risk Management (BIM)**
 - Learned HIRA techniques, safety audits, SOP development, and the PDCA cycle for continuous safety improvement.
- **Managing Safely (IOSH)**
 - Learned core HSE principles including risk assessment, hazard identification, incident investigation, and how to evaluate and control risks effectively
- **30-Hour OSHA General Industry Safety and Health**
 - Gained practical knowledge on key occupational safety topics including work at height, confined space entry, industrial hygiene, ergonomics, and hazard communication.
- **OSHA Fire Extinguisher Training**
 - Learned fire classes, extinguisher types, basic fire-fighting techniques, and fire prevention principles.
- **Introduction to Process Safety and Risk Analysis (Coursera)**
 - Learned process safety fundamentals including risk identification, checklist analysis, safeguards, event tree construction, and failure probability estimation using past incident insights.

Industrial Training

Training Institute for Chemical Industries

May 2022 – Jun 2022

- Completed an intensive one-month training program covering essential topics in the chemical industry, including process unit and control operations and comprehensive health and safety protocols. I received thorough instruction in fire safety systems and protection protocols, learning how to identify and mitigate potential hazards effectively.
- Awarded a certificate of A+ for successfully mastering the training curriculum and demonstrating proficiency in key aspects of chemical industry operations.

Project Intern

Jalalabad Gas Transmission & Distribution System Ltd

Nov 2021 – Apr 2022

- Acted as a liaison among laborers, contractors, while overseeing overall project safety, including welding condition monitoring, toolbox talks, safety audits, PPE tracking, and daily inspection reporting

Skills

- **Soft Skills:** Adaptability, Leadership, Creative ideation, Cross-cultural Communication.
- **Technical Skills:** Microsoft Office Suite, Python, Tableau, Machine Learning, Auto CAD, ArcGIS
- **Language:** Bangla (Native proficiency), English (Bilingual proficiency)

Reference:

Engr. Jashim Uddin Ahmed
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