

Soran Ghazi Mahmood

Petroleum Engineer

New Hawler/ Erbil- Iraq

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Summary

Experienced Petroleum Engineer with 5 years of industry expertise spanning refinery operations, laboratory analysis, chemical selection, surface production facilities, and general logistics. Skilled in managing production chemicals, optimizing surface operations, and supporting warehouse and supply chain activities. Strong background in HSE compliance, quality management, and cross-functional collaboration. Detail-oriented and adaptable, with a proven ability to perform in high-pressure, fast-paced, and team-driven environments.

Education

SORAN UNIVERSITY – Erbil, Iraq
Bachelors in Petroleum Engineering

November 2016 - July 2020

Skills

Technical Skills:

Production Operations
ATM & Vacuum Distillation Processes
Pumps Operation & Maintenance
Mechanical Isolations
P&ID, PFD, and Cause & Effect Diagrams
Permit to Work (PTW) & Task Risk Assessment (TRA)
HSE Awareness & Compliance
Laboratory Analysis
Chemical Handling & Selection
Chemical Storage & Handling

Logistics & Operational Support:

Warehouse Operations
Inventory Management
Shipping & Receiving
Logistics Support
Transport Coordination

Digital & Administrative Tools:

Microsoft Office Suite (Word, Excel, PowerPoint, Outlook)
Email & Internet Proficiency

Other skills:

- General driving licence.
- Early harmony with people and relational
- Ability to work under pressure

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- Ability to work in a team structure
 - Making decision and solving problems
 - Ability to obtain and process information
 - Forklift certificatified driver
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Certifications

- Work at height training.
 - Level 2 Award in Fire Safety Principles training.
 - Hydrogen Sulphide (H₂S) Safety training.
 - Forklift Safety Basic - Topics covered in this training include: Forklift Safety Features, Lifting Loads, Stability Triangle ... etc
 - KRG internship Program by Kurdistan Regional Government in Khormor LPG plant.
 - Training of trainer (TOT) course for 30 hours.
 - Training course under the subject of basic and requirements in Business Plan.
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Experience

SAHARA MIDDLE EAST

Lab Technician & Sales Engineer (*with additional roles in Logistics & Warehouse Supervision*)

Base & Remote Locations

Sep 2022 to present

Laboratory & Chemical Testing

- Performed **bottle tests** for chemical selection including: Corrosion Inhibitor, Demulsifier, Scale Inhibitor, H₂S Scavenger, Asphaltene Inhibitor, Anti-Foam, O₂ Scavenger, etc.
- Analyzed samples for **API gravity, BS&W, Salt content, H₂S levels, pH**, and other key parameters
- Operated **spectrophotometer** for water quality testing, iron content, and post-treatment chemical residuals
- Conducted **monthly APB and SRB** microbiological tests across multiple sites
- Performed **weekly and monthly calibration** of lab instruments to ensure testing accuracy and reliability
- Managed the laboratory's consumables and equipment needs, ensuring proper function and timely replenishment

Field Operations

- Confirmed and adjusted **chemical injection rates** for various treatment chemicals across multiple field sites
- Collected samples from **pipelines, wellheads, downstream systems**, and other key points in production
- Supervised and executed **high-pressure batch chemical treatments**
- Monitored **chemical injection pumps** on a daily basis
- Prepared and set up **batch treatment equipment**
- Frequently deployed to **remote locations** to support technical operations

Logistics & Warehouse Management (unofficial role)

- Supervised **chemical warehouse operations**, including stock control and safety compliance
 - Conducted **weekly, monthly, and annual inventories** of chemical stock
 - Managed **chemical storage and handling** practices to ensure safety and compliance
 - Supported **logistics coordination** for chemical delivery and dispatch to field sites
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GAILANY REFINERY

Plant Operator

Day / Night Shift (6 day on / 3 day off Rotation)

Jan 2022 – Aug 2022

- Starting and stopping the refinery
- Operating different types of burners
- Monitoring & operating distillation column
- Taking samples from feed & products
- Offloading crude oil & fuel oil into storage tanks
- Performed tests on samples to determine specific gravity, sulfur content, flash point, pour point... etc.
- Loading products to trucks including naphtha, diesel, kerosene... etc.
- Taking daily readings and monitoring different units
- Perform maintenance and housekeeping of the plant

HALBAND OIL REFINERY

Process Operator

Day / Night Shift (6 day on / 6 day off Rotation)

Jan 2021 – Jan 2022

- work with numerous pumps, compressors, cooling towers, atm & vacuum distillation tower, heat exchangers, condensers, air coolers...etc.
- Monitoring & operating atm and vacuum distillation tower.
- Basic safety training (Gas release, H₂S release, Fire fighting and other HSE trainings)
- Recorded and maintained temperature, levels and pressures of process systems, heat exchangers, pressurized vessels, tanks and equipment.
- Operating different types of pumps such as Centrifugal pumps, Gear Box pumps, Vacuum pumps... etc. Also, monitoring them for any abnormal situations.
- Performed tests on samples to determine quality such as ductility, softness, penetration... etc.
- Inspect quality of output to make sure it is up to standards
- closely inspected equipment & machines for safety problems, efficiently and leaks.
- perform maintenance and housekeeping of the plant.

KHORMOR LPG PLANT (DGCP) (Internship)

Jul 2019

Learnt practical life of field for different type of staff and their responsibilities.

Participate in both theoretical and practical classes which taught by petroleum professors.

Have general information about EPF (Early Processing Facility), Compressing and Pumping Stations, also see some practical and theoretical courses which are:

- Permit to Work System
 - Introduction to H₂S
 - Confined Space Entry
 - Chemical Awareness
 - Task Risk Assessment
 - Fire Fighting
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SATI FREEN TRAVEL AGENCY

Salesman

Part Time

Jul 2017 – Jun 2019

I worked in Sati Freen company which is local travel agency as part time for nearly two years, which I worked as salesman, Counter & Manager of the company's social media. In the company I learned booking flight and hotels, also learned how to deal with customers.

Languages

Kurdish (Native)

Arabic (Good)

English (Good)
