

ASIM AHMAD

Chemical Engineer

- Riyadh, Saudi Arabia • Valid & Transferable Iqama.
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PROFESSIONAL SUMMARY

Experienced Chemical Engineer with 5 years of proven experience across Oil & Gas, Petrochemical, Water Treatment, and Manufacturing industries in Saudi Arabia. Strong expertise in process operations, commissioning, process safety, HAZOP/HAZID, and plant optimization. Well-versed in ARAMCO, SABIC, Royal Commission, and NEOM standards, with a solid track record of supporting safe, efficient, and compliant industrial operations. Adept at working in EPC, PMC, and client environments, ensuring strict adherence to HSE, quality, and operational excellence requirements.

CAREER OBJECTIVE

To obtain a challenging position as a Chemical Engineer with ARAMCO, SABIC, NEOM, Royal Commission projects, or leading private companies, where my technical expertise, hands-on experience, and strong commitment to safety and quality can contribute to reliable plant operations, process optimization, and continuous improvement.

CORE COMPETENCIES

- Oil & Gas Process Operations
- Petrochemical & Manufacturing Processes
- Water Treatment & Desalination Plants
- Process Safety (HAZOP / HAZID / Risk Assessment)
- Commissioning, Start-Up & Shutdown Support
- Process Optimization & Troubleshooting
- Quality Control & Quality Assurance
- Environmental Compliance (RC Standards)
- ARAMCO / SABIC Engineering & Safety Standards

PROFESSIONAL EXPERIENCE

Key Responsibilities:

- Monitor, control, and optimize chemical and utility processes to ensure safe, stable, and efficient plant operations.
- Support oil & gas, petrochemical, water treatment, and manufacturing facilities in compliance with ARAMCO, SABIC, Royal Commission, and NEOM standards.

- Participate in commissioning, start-up, shutdown, and performance testing of process units and utilities.
- Conduct and support HAZOP, HAZID, risk assessments, and process safety reviews.
- Review and interpret PFDs, P&IDs, process calculations, datasheets, and operating manuals.
- Perform mass and energy balance calculations to improve process efficiency and reduce losses.
- Monitor raw materials, utilities, intermediates, and finished products through laboratory analysis and QA/QC procedures.
- Coordinate with operations, maintenance, HSE, and engineering teams to troubleshoot and resolve process issues.
- Ensure compliance with Saudi environmental regulations, waste management practices, and emissions control limits.
- Prepare SOPs, technical reports, incident investigation reports, and client submissions.

INDUSTRY-SPECIFIC EXPERIENCE

Oil & Gas / Petrochemical

- Support for crude oil and gas processing units, utilities, and chemical injection systems.
- Operation and monitoring of reactors, distillation columns, separators, heat exchangers, and pumps.
- Compliance with ARAMCO process safety, operational, and maintenance standards.

Water Treatment & Desalination

- Operation and monitoring of RO, UF, softening, filtration, and chemical dosing systems.
- Water quality testing and compliance with Royal Commission environmental standards.

Manufacturing

- Monitoring of continuous and batch processes.
- Process optimization, defect reduction, yield improvement, and quality enhancement initiatives.

TECHNICAL SKILLS

- Aspen HYSYS / Aspen Plus (Basic to Intermediate)
 - Process Simulation & Optimization
 - Mass & Energy Balance Calculations
 - Laboratory Testing & QA/QC
 - Process Equipment: Reactors, Columns, Heat Exchangers
 - Chemical Handling & MSDS Compliance
 - MS Office & Technical Documentation
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EDUCATION

Bachelor of Science in Chemical Engineering

University of Wah

- **Final Year Project:** Production of 7 tons/day of diesel oil from waste polyolefin plastic bottles

Intermediate, Per Engineering

Quaid-E-Azam group of colleges Swabi

- Relevant coursework in Pre-Engineering.

Metriculation, Science

Gandhara School and College Chakdara

CERTIFICATIONS

- Organizer a Webinar on “ Energy Crisi And Sustainability.
- Community Service.
- Vice-President of American Institute of Chemical Engineers(AICHE) WEC chapter”.
- Organizing WEC OLYMPIAD (2024).
- Arranging CHEMEX’22.

LANGUAGES

- English.
- Arabic (Initially).
- Urdu.
- Pashto.

REFERENCES

Will be provided upon request.

