

ABDUL REHMAN

Chemical Engineer (B.E)
Karachi, Pakistan.

Professional Summary:

Around 6+ years of Experience which includes about 4 years as DCS (YOKOGAWA Centum VP) Boardman in Oil and Gas / Petrochemicals Process Units and worked in Crude distillation unit, naphtha hydrotreater, gas plant (LPG recovery), amine unit (H₂S removal), platformer and isomerization units. Have good hands on experience of Operations, Pre Commissioning, Commissioning, Master Startup, Shutdown, Catalyst loading, Turn around activities, Emergency handling etc. Well versed with PFDs, P&IDs and line tracing of designated areas.

Professional Experience:

BYCO Petroleum Pakistan Limited – SENIOR OFFICER: (Mar 2017-Present)

- Presently working as Boardman of Naphtha Hydrotreater Unit, Gas Processing Unit, Amine Unit (LPG sweetening and amine recovery), Reformer and Isomerization Unit.
- Performing smooth start up and shut down (normal and emergency) and normal operations as per Standard Operating Procedures (SOPs).
- Troubleshooting, optimization and operation of amine based LPG sweetening unit to produce on spec LPG.
- Monitoring plant parameters i.e. product flowrates, H₂ partial pressure, furnace/heat exchanger efficiency, reactor LHSV, pumps NPSH etc. through material balance, energy balance and chemical engineering principles.
- Monitoring DCS trends and performed logical corrections to prevent interruptions to system operation.
- Performing day-to-day yield improvement and process performance monitoring to assure maximum production output.
- Adjusting process parameters (flowrates, pressure, temperature) to get on spec products based on lab results.
- Taking corrective action regarding any operational disturbance, coordinate with area operators for field adjustments and inform shift engineer of any irregularities.
- Performing basic calculations for determining process parameters and material balances.
- Responsible for alarm management of DCS and ESD Systems.
- Testing Emergency Shutdown (ESD) of the plant as per given schedule.
- Participated in the development of various standard operating procedures.
- Ensuring proper handing over taking over to incoming DCS operator on current operating status and significant events
- Reviewing and updating SOPs plant/equipment checklist and log sheets as per requirement.
- Participated in Process Hazard Analyses to identify and assess process safety threats and develop recommendations to mitigate these threats.
- Improving safety/tool box talk culture to control residual hazards and risks.
- Supervising activities for start-up/maintenance via PTW system keeping in view safety protocols.
- Participated in various pre-commissioning, commissioning and modification activities of the plant.
- Participated in various Technical Review (MOC) activities to ensure robust design for changes to be implemented regarding plant modification.
- Involved in many HAZOP studies in collaboration with technical services.
- Monitoring and verifying DCS and plant instruments readings, record and communicate activities carried out during the shift and write down shift activities in the shift log book.
- Generating maintenance work requisites (MWRs) as per requirement in SAP.
- Ensuring all activities are conducted in accordance with approved HSE practices.
- Raising first incident reports (FIRs) via IRS on any near miss and incident.

Pakistan Synthetics Limited (PSL) - SHIFT TEAM LEADER: (Aug 2016-Feb 2017)

- Leading a team of field and DCS operators for the smooth production of PET (Polyethylene terephthalate).
- Ensure safe plant operation and watch over activities for plant maintenance.
- Reviewed and updated P&IDs to bring into compliance with the relevant standards.

BYCO Petroleum Pakistan Limited – FIELD OFFICER: (Feb 2014-Jul 2016)

- Performed field operator duties in Crude Distillation Unit, NHT, GRU, Amine Unit, Platformer and Isomerization Unit.
- Participated in pre-commissioning, commissioning and pre-startup activities of the plant.
- Duties involved taking regular round of the unit to ensure safe and smooth plant operation and preparation of area or field equipments for hot work/cold work, confined space entry etc. and recommission after work completion.
- Continuously monitor and control the process variables and ensure equipment operations are according to their prescribed range to meet production plan/specifications and operate the plant safely, reliably and efficiently.
- Developed an understanding of all operational procedures and practices through on-the-job training, job rotation to ensure readiness and capability, to assume the Operator role.
- Adjusted chemical dosing (chemical calculations in ppm) with respect to crude feed and respective lab results.
- Prepared job packs for the area which includes isolation lists marked in P&ID, pre job checklist, commissioning procedures, punch listing, N2 purging, leak testing etc.
- Operated field equipments in accordance with operating and approved SOPs to ensure effective process flows and optimum operational status of equipment.
- Prepared field equipment in allocated work area for maintenance activities, follow up execution and re-commission equipment upon satisfactory completion of work.
- Ensured implementation to permit to work system inclusive LOTOTO system (lockout/tag out/try out) and to ensure that all works are performed in accordance with company's HSE standards and procedures.
- Logged plant parameters in log sheets, events in field log book and also prepared daily shift reports and inform supervisor about any irregularities.
- Followed proper housekeeping procedures to maintain clean and safe working area.
- Provide immediate first-line response capability in the event of emergencies or major incidents in order to eliminate or limit potential loss or damage to company personnel, assets or the environment.
- Continuously monitoring conditions of running and static equipment during the course of the shift and able to identify problems as they arise and seek appropriate assistance.
- Operation of refinery flare system at start up and handing over to maintenance.
- Ensured incoming shift operator is fully briefed on current operating status and significant events during previous shift, to ensure seamless hand-over of responsibilities.
- Respond to any emergency situation in accordance with standard Operating procedures and/or instructions from the Shift Supervisor.
- Participated in the development of Risk Assessment and Job Safety Analysis.
- Performed other similar duties as assigned by area engineer.

Achievements:

- Successfully participated in the regeneration of catalyst of reformer unit and NHT unit.
- Participated in the pre-sulfiding activity of NHT catalyst.
- Participated in the sulfur removal activity of Isomerization catalyst.
- Successfully commissioned Amine unit, Reformer Unit and Isomerization Unit in BYCO Petroleum.
- Performed chemical cleaning of several units of BYCO in collaboration with CR Asia team.
- Passed NEBOSH exams with **Distinction**.

Certifications:

- **NEBOSH-International General Certificate** from CORSHE. (Aug 2016)

Technical and Safety Skills:

- Production analysis through mass balance on daily basis for calculating product yields.
- Involved in Pre-commissioning, commissioning and Master Start-up of Amine Regeneration Unit Naphtha Hydrotreater Unit, Gas Separation Unit, LPG Unit, Reformer and Isomerization Unit.
- Carrying out JSA (Job Safety Analysis) with specified team on hazardous jobs.
- Punch Listing of new facilities and problem rectifications.
- Well versed with refinery major equipments like furnace operation, three phase separator operation, centrifugal and PD pumps operations, switching over and handing over to maintenance, heat exchangers' isolations and handing over to maintenance, PD compressor switching over and operations.
- Well versed with H2S safety and its precautions.
- Raising Maintenance Work Requisites (MWRs) in SAP system for mechanical, instrument, electrical and civil.
- Appointed as fire warden in case of emergency.
- Awarded safety star in the second quarter of the year 2019 in BYCO Petroleum.
- Participated in in-house Process Safety Management training (22 elements) conducted by EHS Manager BYCO.
- Participated in in-house Permit to Work (PTW) training by EHS Manager BYCO.
- Participated in Confined Space certificate training by Safety Officer BYCO.
- Participated in various fire/mock drills and firefighting scenarios.

Professional Qualification:

- Bachelors (B.E) in **Chemical Engineering** from **NED UET** with 72%. (Jan 2014)
- FSc. in **Pre-Engineering** from **Dehli Govt. College** with 78%. (Aug 2009)

Personal Information:

- Nationality: Pakistani
- Cell Contact #: +92-346-2652985
- Date of Birth: 19th January, 1991
- Address: R-71, Block-3, Gulistan-e-Johar, Karachi, Pakistan.
- Email: s.abdulrehman91@gmail.com
- Skype: engr.abdulrehman
- Passport #: DU5176402