

# MUHAMMAD AWAIS KHAN

**Current Address: A-508, 5<sup>th</sup> Floor, Block-B, Ali Residency, Sector-11A, North Karachi**

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## PROFESSIONAL SUMMARY

Highly resourceful chemical engineer with +5 years of experienced in Pakistan's largest oil refining complex. Skilled in process engineering proficiency and operations of Naphtha Isomerization units, Vacuum distillation unit, Propane de-asphalting Unit, Furfural Extraction Unit , MEK De-waxing unit and utilities of petroleum refinery. Experienced in commissioning and master startup of Isomerization plant. Having Master's and Bachelor's degrees in chemical and process engineering from renowned University of Pakistan. Keen to join growth-oriented organization for professional development by using management and theoretical background and experience of process equipment's along with integrated refinery processes.

## CORE SKILLS AND COMPETENCIES

- Implementing, maintaining and updating integrated management system of HSEQ and process safety.
- Sound knowledge of reviewing & updating PFD, P&ID, equipment data sheet, material & heat balance.
- Front-line exposure to petroleum refinery process optimization, troubleshooting and emergencies.
- Pre-commissioning, commissioning of plant, Expert in DCS operations and Advance Process Controlling.
- Proficient in ASPEN HYSYS, OTS, MS OFFICE, SAP & other IT skills of process engineering.
- H<sub>2</sub>S and other toxic gases processing and handling exposure.
- Flow line network hydraulics, vessel sizing, Relief load calculation, PSV & control valve sizing/selection.
- Pumps, Compressors, Turbines and Heat Exchangers technical evaluations, rating and selection.
- HAZOP study for modifications and for existing process.
- Having knowledge of API, ASTM, ISO and piping codes & standards.
- Young, proactive, work well under pressure, Passionate for R&D and achieving excellence.

## PROFESSIONAL EXPERIENCE (TOTAL +5 YEARS)

### PROCESS ENGINEER-PROCESS SAFETY-HSEQ COORDINATOR (NATIONAL REFINERY LIMITED)

**SEPTEMBER 2015 – Present**

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#### (Karachi) JOB DESCRIPTION

- Responsible for plan and provide technical integrity solutions through proactive process surveillance and timely intervention of process parameter, on spec production and performance evaluation as Unit
- Monitoring of process parameters and equipment's to optimize process performance and utilities.
- Implementation Permit to Work System to eliminate the hazards.
- Provide trainings to process operating staff via OTS, performance evaluation and manage manpower.
- Ensure maximum plant and process safety.
- Prepare Capital Budget and Revenue Budget of department.

- Responsible for looking opportunity to enhance performance of units.
- Assist manager in handling departmental task and issues.
- Prepare daily status sheet and monthly progress report.
- Set and meet production targets. Manage chemical and catalyst inventory.
- Prepare and revised operating manuals and procedures.
- Engage in units revamp study to meet future demand

## **ACHIEVEMENTS**

- Established and maintained new department “NAPHTHA BLOCK” after refinery expansion.
- UOP graduate for unit commissioning, initial start-up and unit normalization.
- Certificate from the ministry of industries on completing the Aspen HYSYS process simulation.

## **PROJECTS**

### **ISOMERIZATION UNIT (6500 BPD)**

All the pre-commissioning, commissioning, and Unit start-up and guarantee test run for naphtha block in National Refinery Limited as shift Manager of Naphtha block that include Hydrotreater & Isomerization unit

### **AMINE TREATMENT UNIT**

- Successfully completed all major activities including pre-commissioning, commissioning, unit start-up and normalization in National Refinery Limited.

## **MISCELLANEOUS EXPERIENCE**

- Worked as a process engineer for lube production refinery in National Refinery Limited.
- Assistant Manager in Production planning & economics for lube segments.
- Process Engineer of Naphtha block that include Isomerization Unit
- Worked as a DCS Engineer about 01 year on Isomerization unit
- Worked as a Shift Engineer about 2 years on Isomerization unit
- Successfully handled refinery major turnaround 2016.
- Supervising the Platforming unit and Hydrotreater unit catalyst regeneration.
- Pre-commissioning and commissioning of isomerization unit and sulfur recovery units.
- Performing exchangers design and rating using Aspen HTFS.
- Pumps, compressors, turbines and control valve selection, designing and rating.
- Worked as management trainee in MIA Corporation Pvt Ltd for 08 months.
- Four weeks internship in Nestle Pakistan Ltd.

## **EDUCATION & QUALIFICATION**

- Master’s degree in Chemical Engineering (2017 – 2020) NED UET, Karachi, .
- Bachelor’s degree in Chemical Engineering (2011 – 2014) NED UET, Karachi, GPA(3.65/4.0).
- Intermediate (diploma) degree in pre-engineering (2008-2010) BIEK, Karachi, 81.1%.

## **REFERENCES**

- Dr. Saud Hashmi, Assistant professor-NED UNIVERSITY, [saudhashmi@neduet.edu.pk](mailto:saudhashmi@neduet.edu.pk),