

MUHAMMAD ABDULLAH KHAN

CHEMICAL ENGINEER

Mobile: +971-526880751
+971-544339097
Address: Dubai
Driving License: UAE
Email: m-abdullahkhan@hotmail.com

Career Summary

An adept Chemical Engineer with a demonstrated history of 13 years' experience in the Nuclear Power Plant, Petrochemical and Paint industry. Skilled in Continuous Improvement, Process Engineering, Commissioning, Planning, HSE, Water & Waste Water Treatment, Chemist, O&M, Project Coordination, Engineering Design, FEED, CAPA and 5S. Strong Engineering professional focused in Heat and Mass transfer, Plant Design. Dedicated, focused Independent and self-motivated professional, excellent analytical and problem-solving skills. Proven ability to identify needs, enhance efficiencies and cut costs.

Certifications and Trainings

- OSHA
- COSHH
- Plant Access Training (ENEC)
- Behavior Observation Program (ENEC)
- ISO 14001:2015 Training
- Emergency Response
- Environment Awareness
- Health and Safety Orientation (ENEC)
- ISO 9001:2015 Training
- NEBOSH (IGC1, IGC3 Pass, IGC3 pending)

PROFESSIONAL EXPERIENCE

- **Process Operation Engineer** July, 2020– August, 2022
Baraka Nuclear Power Plant. Ecorbit Engineering, **NAWAH.**
Abu Dhabi, UAE.

Responsibilities:

- Operating Demi Water (MF, 1RO, 2RO, MDC, MDI, and MORS) Plant.
- Operating Waste Water Treatment (Oily Pond, Chemical Pond1 &2, Coagulation & Clarifier Tank Pressure Filters, and Carbon Filters) Plant.
- Monitor variables such as PH, Conductivity, pressure, DO, COD, Temperature.
- Performing the Chemical Batching following NAWAH Procedures.
- Evaluating the performance of various process equipment's like Pumps, Heat Exchangers, Condensers, Compressors.
- Planning and monitoring work activities in CPP, Auxiliary-System, and CCWS System.
- Sound knowledge and experience on FEED and EPC to find out technical problems.
- Suggest new Process Design & Process Flow Ideas to avoid the Plant Troubleshooting.
- Coordinate with operations to conduct Test Runs, test new chemicals and implement changes in plant operations.
- Develop & update plant PFDs, P&IDs.
- Conduct Field walk-downs to identify and analyze corrective and preventive maintenance.
- Identify lock-out/tag-out requirement for maintenance work activities as per LOTO requirements.
- Planning and following-up commissioning activities such as scheduling,



Key Skills:

- Management Skills.
- Quality Control
- O&M
- Leadership
- Water treatment
- Distillation
- Project Coordination
- HSE implementation
- P&ID's and Iso-metric drawings reading and implementation.

Projects:

- Commissioning experience of
 - Bio-Ethanol (Distillation) Petrochemical Plant.
- Erection & Commissioning experience of
 - CO₂ Plant
 - Water Treatment plant.

preparing and reviewing commissioning test instructions.

- Coordinates Work Execution team and FIN (Fix It Now) Team regarding maintenance and clearance work activities.
- HAZOP studies on process units.
- Planning and updating Preventive Maintenance (PM) list.
- Planning and updating Key Performance Indicator (KPI) list.
- Issue online AR (Action Request) to FIN team for maintenance work activities.
- Implement and follow up of HSE regulations (Permit to Work System, HAZAR Identification, Incident Notification and Investigation etc.
- Making sure that all activities from all disciplines fit in the time schedule, logic tie activities based on operation sequence.
- Attending meetings with management to discuss any potential risks or concerns for their timely Remedial actions, if required.

• **Junior Chemist**

April, 2017– June, 2020.

National Paints Factories.

Sharjah, UAE.

Responsibilities:

- Execution of testing samples of paint production batches and instructing for adjustment if necessary.
- Responsible for production and process support.
- Sound knowledge of Spectrometer, Viscometer, Gel Time, DSC.
- Arranging and updating the stock of chemicals for manufacturing of paint.
- Data acquisition, analysis and study to improve efficiency of existing best practice.

• **Senior Process Engineer**

February, 2015– April, 2017.

TSML Group of Bio Ethanol Petrochemical Industries , Unit II

Multan, Pakistan.

Responsibilities:

- Hands on experience in Plant Control System DCS Honeywell Experiiion C300 PKS R41.
- Daily Monitoring of Fractional & Vacuum Distillation, Fermentation and Bio Gas key parameters.
- Evaluating the performance of various process equipment's like Pumps, Heat Exchangers, Condensers, Compressors, Cooling Towers.
- Monitor the waste water and waste water treatment plant.
- Acting as interface among Technical Services, Laboratory and Operation department of the company.
- Review existing technology and develop case for revamp and expansion plans or installation of new facilities to achieve overall improvement in plant performance and productivity.
- Planning and performing Plant Shutdown & Start-up of Ethanol (Distillation) and Bio Gas plant.
- Suggest new modifications for process improvement.
- Safe & Optimize plant operation with quality products.
- Perform laboratory tests such as UV, PH, Hardness, COD, and Strength Test.
- Experience in studying the P& IDs, Process flow Diagrams and MSD's.
- Prepare AR (Action Request) report and daily/weekly maintenance schedule with coordination of other concerned (Mechanical, Electrical, Instrument) departments.

Computer Skills:

- Microsoft Office
- AutoCAD.
- Windows XP, 7 & 10.
- Hardware problems.
- Drawings and Report making.

Additional Skills:

- Analytical and organizational skills.
- Written and verbal communication skills.
- Multi-tasking.
- Team work.
- ASME Codes Knowledge.
- Materials / Chemicals procurement and Inspections.
- Project designing.

- Prepare and update the JHA, ERA and WMS of the Distillation, Fermentation.
- Assessing safety and environmental issues in the plant.

- **Process/ HSE Engineer** September, 2009– January, 2015.

TSML Group of Bio Ethanol Petrochemical Industries , Unit I
Faislabad, Pakistan.

Responsibilities:

- Monitoring and controlling of Ethanol Plant Operation.
- Hands on Experience in Plant Control System DCS Honeywell Experiion C900 PKS R410.
- Performing the Brix test, Filling Alcohol test, UV Test, PPT Test, Alcohol Strength and time test.
- Performing the Cooling tower and RO Test of TDS, PH, Hardness, Alkalinity Test, and Chloride Test.
- Responsible for the health and safety measurements in plant and during any kind of maintenance work.
- Supervising the maintenance work.
- Training of all staff to use PPE's for their safety.
- Conduct Tool Box meeting on daily basis before work start.
- Erection and commissioning of CO₂ and RO Plant.

EDUCATION

Successfully completed Bachelor's in Chemical Engineering from Dawood University of Engineering& Technology, Karachi in the year 2009 with 1st Division

PERSONAL DETAILS

- | | |
|--------------------|------------------------|
| • Name: | Muhammad Abdullah Khan |
| • Father name: | Abid Husasin |
| • Date of birth: | 11.09.1988 |
| • Passport No.: | JR4101363 |
| • Material Status: | Married |
| • Language known : | English, Urdu, Hindi |