

MUHAMMAD ILYAS

Chemical Engineer

Mohallah Chota Garhi, Village & P/O Urmar Miana, Tehsil & District Peshawar, KPK, Pakistan

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OBJECTIVE:

To work efficiently by utilizing the acquired knowledge, skills and personal abilities in a highly reputed organization to produce optimum results for the organization and also to enhance my own skills through practical work.

ACADEMIC BACKGROUND:

Degree/Certificate	Institute	CGPA/ %age	Passing Year
B.E. Chemical Engg.	Dawood University of Engineering & Technology, Karachi.	CGPA 3.66/4.00	2016
H.S.S.C. Pre-Engg.	Government College, Peshawar. (B.I.S.E., Peshawar)	74.82 %	2010
S.S.C. Science	Govt. High School, Urmar Miana. (B.I.S.E., Peshawar)	79.67 %	2008

PROFESSIONAL EXPERIENCE:

1. Wah Nobel Chemicals Limited, Wah Cantt. Pakistan

May 16, 2016-Nov. 15, 2017

Work Responsibilities:

- Direct report to Plant Manager, Supervise all activities related to the production.
- Implementation of planning procedures to achieve target.
- Maintain the production and other data based records to generate production reports and to implement the procedure of ISO and HSE.
- Handling of manpower and assigning jobs to sub-ordinates.
- Evaluate plant performance & liaison with other departments.
- To ensure the availability of raw material i.e. Methanol, NaOH, HCl etc.
- To keep all the production parameters under control and ensure that process is being run under standard operating conditions.
- In case of any abnormality in process, timely execution of corrective and preventive measures.
- Plant Troubleshooting handling.
- Check the quality and quantity of the product during process.
- Authorization of work requests for routine and scheduled maintenance jobs.
- Developing HSE team for HSE monitoring plan, Emergency response plan, firefighting procedures for plant, Hazard Identification & Risk Assessments & Incident/Accident investigations.
- To handle plant from (DCS & PLC) controlling system.
- Emergency shutdowns & process shutdowns.
- Manufacturing of Formaldehyde (Metallic Oxide Catalytic Contentious Process).
- Loading and unloading of a Catalyst.
- High Temperature Reactors, Heat Exchangers, Absorption Towers, Pumps, Air Blowers, Vaporizers, DTH & Steam Condensers, Electric Heaters.
- **Utilities Experience** i.e. Cooling Towers, Electric Chillers, Boiler, Air Compressors, Air Dryers, Softening & Demin Water System.

2. Pakistan Oilfields Limited (POL), Rawalpindi

4 Weeks Summer Internship 2015

- Studied about HSE.
- Learned about Processing of the Crude Oil.
- Acquired knowledge of the Crude Oil, Gas and Water Separation.
- Acquired knowledge of Oil Stabilization, Amine Sweetening, and Glycol Dehydration Units.
- Observed the Crude Oil Decanting, Storage and Pumping Unit.

- Learned about Utilities of the Plant.
- Acquired knowledge of Ammonia, Urea and DAP Processing.
- Observed about the Production of Urea and DAP.
- Studied about the Safety of Plant.
- Observed the Packing of Urea and DAP.

FINAL YEAR PROJECT:

Process Simulation of Natural Gas by Amine Sweetening using Mixed Amines (Case study of POL)

- The purpose of carrying out this project was to enhance the amine sweetening process using mixture of amines i.e. Monoethanolamine (MEA) and Diethanolamine (DEA) along with Methyldiethanolamine (MDEA).
- We used HYSYS software for simulation to see the effect of different operating parameters. Different simulated results are obtained.
- In all cases, 50 wt% or less total amines in water were used with the base case is 50 wt% MDEA, MEA & DEA were used as additives to form the mixture.
- In all the cases with different mixture of amines at constant pressure the flow rate has greater effect on the acid gases loading.
- By increasing flow rates the loading of acid gases is decrease while decreasing flow rates the loading of the acid gases increases.

CERTIFICATION:

- Certified as “**Registered Engineer**” From **Pakistan Engineering Council (PEC)**, Islamabad.
- Certified From **DOMINO** English Language Centre, Karachi.

IT SKILLS (Tools):

- Working knowledge of **Aspen HYSYS** and Programming Languages such as **C++**.
- Microsoft Office (Word, Excel, Power Point).
- Windows XP Professional, Windows 8 & Windows 10.

KEY SKILLS:

- Good Interpersonal Skills & Presentation Skills.
- Good English Communication Skills (Verbal & Written).
- Ability to work efficiently both independent & in a team.
- Problem Solving and quick Decision Making.
- Strong Analytical Skills & well groomed.

LANGUAGES SKILLS:

- Fluency in speaking, writing and listening **English**.
- Fluency in speaking, writing and listening Urdu.

PERSONAL INFORMATION:

Father's Name: Imtiaz Khan
Date of Birth: January 4, 1992
NIC #: 54400-8307011-9
Passport #: FZ1740111
PEC#: CHEM/14157
Nationality: Pakistani
Gender: Male
Marital Status: Single

REFERENCES:

Will be furnished on demand.