



Muhammad Ashir Amin

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OBJECTIVE

Seeking a learning environment of industry where i grow myself as successful a professional engineer where i can utilize my skills and experience to improve academic, individual and social skills of such organization as well as myself.

WORK EXPERIENCE

Attock Refinery limited

Dec 2017 — Present

Trainee Engineer

Currently Working as a Trainee Engineer having a diversified experience in

HCU

(Heavy Crude Unit) is designed by Japanese engineering company MITSUI. It has a capacity of 10000BPSD. It charges the crude having sp.gravity ranges from .85-0.88. It is also divided into two categories; one is the asphaltic, second is non asphaltic. Sp.gravity of asphaltic ranges from 0.87-0.88, and that of non-asphaltic ranges from 0.85-0.86. It is controlled via DCS.

HYU

To produce 99.99% Hydrogen from Naptha ARL installed Hydrogen Production Unit designed by Linde HydroChem from the process of Hydrotreating, Desulfurization, Reforming, Shift conversion and finally from PSA(Pressure Swing Adsorbition) respectively to remove impurities such as CO,water,N₂, CO₂ and play an important role in DHDS(dihydrogen di sulfide) and ISOM(isomerization) units. It is controlled via PLC as well as DCS.

Duties Performed:-

- Develop & review Process Flow Diagrams (PFD's) & P&ID's.
- Process Troubleshooting & abnormalities/emergency handling.
- Process parameters record understanding deviation trends and their controlling.

Keys skills and competences:-

- Smooth and safe operations of the plant, ensuring quality of products.
- Record keeping of equipment and rectify problem deviation from normal trends.
- Maintenance of pumps , motors,heat exchanger, compressor
- Instrument jobs of transmitters, transducer, compressor console panel,analyzers, flame detectors.
- Able to work with co-worker and mentor junior colleagues.
- Learned basics of PLC and DCS
- Understanding of PFD's, and PID's.

Training Sessions:-

- H₂S Safety
- Emergency response plan
- Permit to work system
- Personal protective equipment's

- Incident reporting and investigation
- Chemical Handling
- First aid
- ISO 50001
- Integrated management system
- Process safety management
- Office safety and behavior based safety
- Basic Understanding about PFD's, P&ID
- Fire Fighting Control
- Hydro-treating
- Furnace, column, desalter training session
- Oil Movement
- Process gas & Hydrocarbon leakage
- Near miss.

Safety & Technical Skills:-

- Use and limitations of various types of Personal Protective Equipment.
- First Aid, Plant safety, Fire fighting and uses of fire extinguisher.
- Process safety Risk management system and personnel Safety management system.
- Permit to Work (PTW) system.

Professional Achievements:-

- Checking Refractor top temperatures and installation of sparger by commissioning plant air.
- Supervision in installation of sleeves, saddles, cladding at reformer outlet.
- Cleaning of burner tip and maintenance of leakage.
- PSA pressure buildup
- preventive actions of circulation of fluids to avoid thermal shocks
- Hot purging of PreReformer
- Worked in Startup and Shutdowns of HCU & HYU units.
- Handled power dip emergencies at both units
- Review Process Flow Diagrams (PFD's) & P&ID's.
- worked in desalting cleaning, heat exchanger hydrotesting, Catalyst Loading , Inerting (oxygen free) of system
- Pump NPSH calculation, Reformer Efficiency & Compression ratio.

Computer Skills

MS Office, MS Excel, MS Visio.

Memberships & Associations

- Registered member of Pakistan Engineering Council (PEC)
- Registered member of American Institute of Chemical Engineers (AIChE)

Languages

- English (Professional working proficiency)
- Urdu (Native or bilingual proficiency)
- German (basics)

University institute of management sciences

July 2017 — Jun 2018

Training

- Performed general office duties and administrative tasks.
- Done data entry record for library books
- Managed and organized form corrections and evaluation at the time of admission
- Monitoring on staff faculty attendance, punctuality and coordinate with director

EDUCATION

BSC Chemical Engineering

University of Wah

Obtained the BS degree with GPA 2.74

OCT 2012 — OCT 2016

FSC Pre Engineering

Punjab College of Information Technology

Sept 2010 — Sept 2012

Matriculation

Anglo Arabic School

Aug 2001 — Aug 2010

INTERESTS

Music, Reading, Painting, Cricket, E-Gaming, Documentries on technical and religious affairs, Table Tennis, Batminton, Snooker.

REFERENCES

Prof. A.K. Salariya

Chairperson/Professor

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