



# Shahzad Shaikh



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## ACADEMIC RECORD




[2022-cont.]		<b>PhD in Chemical Engineering</b> NED University of Engineering & Technology Karachi	Pakistan
[2017-2019]		<b>Master of Engineering in Environmental Engineering (M.E (Environmental Engineering))</b> NED University of Engineering & Technology Karachi  <b>Independent Study Project:</b> Treatment of Industrial wastewater using constructed wetland system	Pakistan
[2010-2014]		<b>Bachelor of Engineering in B.E(Chemical Engineering)</b> Mehran University of Engineering and Technology Jamshoro Sindh  <b>Thesis:</b> Study of Hydrodynamic Drag of Different Fluid - Particle Systems	Pakistan

## INTERNATIONAL QUALIFICATION / CERTIFICATION

[2022]		<b>NEBOSH (National Examination Board of Occupational Safety and Health)</b> The British Safety Council	UK
[2021]		<b>IOSH Managing Safely (Version 5.0)</b> The British Safety Council	UK
[2020]		<b>Behavior Based Safety</b> Alison Certifier Forum	Ireland
[2020]		<b>COSSH Risk Assessor Certification</b> The Knights of Safety Academy	UK

## TECHNICAL QUALIFICATION / CERTIFICATION / WORKSHOP

[2009]		<b>Diploma in Information Technology</b> Sindh Board of Technical Education Karachi	Pakistan
[2021]		<b>Time Management Stress Management: Tools for Organizational Development</b> K Electric (Pvt.) Limited	Pakistan

[2020]		<b>Performance Management Framework</b> K Electric (Pvt.) Limited	Pakistan
[2020]		<b>Awareness on COVID-19</b> K Electric (Pvt.) Limited	Pakistan
[2020]		<b>Internal Auditing ISO 9001:2015</b> K Electric (Pvt.) Limited	Pakistan

## WORK EXPERIENCE

**Current Status**      **Lecturer (BPS-18) in the Chemical Engineering Department at NED UET Karachi**

## EXPERIENCE



<b>Organization</b>	<b>K Electric (Pvt.) Limited</b>
Organization Type	Engineering
<b>Designation</b>	<b>Assistant Manager</b>
Tenure	17th Feb 2020 – 30th June 2022

Worked as an **Assistant Manager** (HSE) at **K-Electric** in HSE Distribution Department having Job responsibility:

- Conduct site visits to check compliance against Safety policies and procedures
- Report and coordinate for KE workplace and public accident
- Vetting of HIRA (Hazard Analysis an Risk Assessment) along with initiating remedial risk mitigation measures
- Participate in and support Safety Audit (SLA) on ISO 45001-2018 of IBCs and Regions/Cluster/other Distribution Department
- Monitoring the status of availability of PPEs & SPEs in their respective areas of responsibility
- Actively participate for updating, modification and development of standards PPEs and SPEs in coordination with TPPE & SC from trials to procurement
- Act as Trainer for safety trainings arrange through Karachi Electric
- Coordination with Regions/Cluster/Other departments for various safety activities such as attending employment engagement, safety walk & parade
- Prepare and provide input for all Regulatory compliance (NEPRA) reports
- Follow up for closing of safe car, used for reporting safety hazard



**Organization**  
**Organization Type**  
**Designation**  
**Tenure**

**Energy Processing Services (Pvt.) Limited**  
Oil and Gas  
**Process Engineer**  
March 2014 – April 2017

**Client**



Worked as **Process Engineer** at **Haseeb GPF** (Gas Process Facility) plant Shikarpur, having production capacity of 30MMSCFD gas

- Responsible to monitor and control operation of Utilities (Three Phase Separator, Cooling tower water, fuel gas skid, Instrument Air, Demine Water and Heat Medium Section) , Amine Sweetening Unit (using MDEA for acid gases removal) , TEG dehydration Unit (using TEG for moisture removal).
- Block diagram, PFD'S, P&ID'S development and evaluation
- Development of Process Simulation models using Hysys for process parameters and equipment optimization.
- Measures pH, TDS, and Chlorides, Zinc, Sulphate, Iron, Chlorine, Phosphate and Total alky through Pauline test of cooling tower water.
- Gas Processing Plant process and Operation optimization.
- Actively participate in plant start-up and shut down activities.
- Focus on safety environmental and operational impact to control the quality of production.
- Routine monitoring of process parameters of production facilities and their effective management in the light of design and required sales parameters.
- Laboratory testing of chemicals used in facility.

## ACHIEVEMENTS

- Designed constructed wetland system to treat industrial wastewater in my independent study project at NED UET Karachi.
- Presented paper on fluid particle system in 2<sup>nd</sup> international chemical conference
- Presented paper on coal gasification in 1<sup>st</sup> international coal conference at MUET Jamshoro
- Because of my strong interpersonal and team management skills, I was selected as a group leader in my bachelor's degree of final year project.
- Excellent Performance of the Year 2021 awarded by K Electric (Pvt.) Limited

## Skills

MS OFFICE	HEC RAS
ERDAS IMAGINE	ARC GIS
Aspen HYSYS 10	ANOVA

References to be furnished upon request