

Muhammad Yasir Shamim

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IChemE UK Membership No: 100150521
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PROFESSIONAL PROFILE

8 years of progressive experience across the national and multinational companies in process industries.

EDUCATION

- 2016-2019, **MSc Chemical Engineering**, Universiti Teknologi PETRONAS, Malaysia
- 2004-2008, **BSc Chemical Engineering**, University of the Punjab, Lahore, Pakistan
- 2001-2003, **HSSC/Intermediate**, Forman Christian (FC) College, Lahore, Pakistan

CAREER SUMMARY

Universiti Teknologi PETRONAS (UTP), Perak, Malaysia.

September 2016 – August 2018

Tutor

- Was a recipient of the Graduate Assistantship Scheme provided by the university during the candidacy.
- Worked as a tutor for the undergraduate courses of Chemical Engineering Lab III (CDB 3062), Chemical Engineering Lab II (CDB 3052), Technical Management for Process Safety (CDB 4633), Health, Safety & Environment (CDB 1012), and Process Safety & Loss Prevention (CDB 3072Z).



September 2008 - May 2013

ICI Pakistan Ltd. (Soda Ash Business), Khewra, Pakistan

Shift Manager, Production Department

- Ensured efficient and smooth plant operation for continuous soda ash production of 1000 tons per day, including dense ash and refined sodium bicarbonate plant.
- Led the team of workers including the permanent and contractual staff in different shifts, providing technical support and coordination among different departments of the plant.
- To sustain the process safety specifications, parameters, and standards at an industrial facility.
- Used to plan and implement the shutdown activities at the plant site and coordinated with other departments.
- Well-versed with a permit to work system and was able to conduct risk assessments, HAZOP, and also developed all required documentation, SOPs, and reports for HSE Management system.



May 2013 – July 2016

Engro Eximp Agriproducts Pvt. Ltd., Sheikhpura, Pakistan.

Production Manager



- Ensured the monthly production plan for different types of paddy and rice processing, managed the daily routine shifts and workforce to achieve production goals on time.
- Achieved the targeted efficiency by keeping an eye on HSE KPIs like TRIR, fires, and environmental complaints.
- Ensured correct operating parameters for process control and maintained all QA/QC related parameters in the range at all times.
- Responsible to coordinate with the maintenance and project department for troubleshooting in case of an emergency shutdown.

PUBLICATIONS

Journal Publications

- M. Y Shamim, A. Buang, A. M Shariff and H. Anjum (2018). "Implementation of Safety Performance Framework (SPF) In Process Industries to Avoid Disasters," International Journal of Automotive and Mechanical Engineering, (15), pp. 5022-5035, DOI: <https://doi.org/10.15282/ijame.15.1.2018.10.0389>.
- M. Y Shamim, A. Buang, A. M Shariff, H. Anjum, M. Athar and M. I Khan (2018). "Development and quantitative evaluation of leading and lagging metrics of emergency planning and response element for process safety performance," Journal of Cleaner Production (JCLEPRO-D-19-01501).
- M. Y Shamim, A. Buang, A. M Shariff, H. Anjum, M. Athar and M. I Khan (2018). "Analysis of Process Safety Management system in Chemical Process Industries, a critical review," Journal of Chemical Engineering & Technology (under review).

Conference Proceedings

- M. I Khan, D. Zaini, A.M Shariff, M. Athar and M. Y Shamim (2018). "Estimation of safe environmental concentrations of ionic liquids towards bacteria by chemical toxicity distribution method." International Conference on Process Engineering & Advanced Materials (ICPEAM 2018), 13-14 August 2018, Kuala Lumpur, Malaysia. IOP Conference Series: Materials Science and Engineering/IOP Publishing.
- M. I Khan, D. Zaini, A.M Shariff, M. Athar and M. Y Shamim (2018). "Effect of the Density and the Refractive Index on the Toxicity of Imidazolium Ionic Liquids: A study of Ionic Interactions." International Conference on Process Engineering & Advanced Materials (ICPEAM 2018), 13-14 August 2018, Kuala Lumpur, Malaysia. IOP Conference Series: Materials Science and Engineering/IOP Publishing.
- H. Anjum, M. A Obaid, M.Y Shamim and T. Murugesan (2018). "Adsorption of Benzene by "Green" functionalization of Montmorillonite." Malaysian Technical Universities Conference on Engineering and Technology (MUCET 2017), 6-7 December 2017, Battu Ferringhi, Penang, Malaysia.

LEADERSHIP ROLES

- Led the team of 80 workers in an assigned shift of ICI Soda Ash, Pakistan, including the competent officers, operators, and contractual staff.
- Led the workforce team to the top by exceeding production targets by maintaining quality standards.
- Conducted HSE training and made Training Need Analysis (TNA) dossiers for the operators of the production department at ICI Soda Ash and Engro Eximp Agriproducts Pvt. Ltd, Pakistan.
- Nurtured a team of young chemical engineers in order to develop them as productive successors and made comprehensive plant training schedules by coordinating with higher management.

CERTIFICATIONS & TRAININGS

- **NEBOSH**, International General Certificate (IGC)
- **First Aid** Certification, DESCON Training Institute (DTI), Lahore, Pakistan
- Certification in **Fire Safety**, DESCON Training Institute (DTI), Lahore, Pakistan
- Principles of **Process Safety Management**, Universiti Teknologi PETRONAS, Malaysia
- **System Safety Analysis** for Process Industries, Universiti Teknologi PETRONAS, Malaysia
- Certification in PSRM (**Process Safety & Risk Management**), Engro Eximp Agriproducts Pvt. Ltd.
- Leading in **HSE** (Manufacturing), ICI Pakistan Ltd.
- Certification in **OHSAS 18001:2007**, University of the Punjab, Pakistan
- Certification in **ISO 9001:2008**, University of the Punjab, Pakistan
- Certification in **ISO 17025:2005**, University of the Punjab, Pakistan.
- **Quality Assurance Management** Course, ICI Pakistan Ltd.
- Certification in **Effective Feedback Skills** Training, ICI Pakistan Ltd.