

HANAN SHAMAS

Chemical Engineer

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Nationality: Pakistan

Passport # PL5168801

Professional Summary

Results-driven Chemical Engineer | Certified Planning Engineer | Passionate About Excellence in Project Execution

Committed to optimizing processes, reducing costs, and driving efficiency in Oil & Gas, Petrochemical, Construction, and Manufacturing. Skilled in Primavera P6, Aspen Plus, EPC Planning, Risk & Delay Analysis. Strong expertise in HSE, QA/QC, Water Treatment & Corrosion Engineering. Proficient in EVM, Cost Estimation & FIDIC Contracts. Dedicated to delivering projects on time, within budget, and beyond expectations!

Experience

Brighto Paints (Pvt.) LTD, Lahore

Quality Assurance Intern | July 2023 - Aug 2023

- Conducted 10-15 quality control tests daily on raw materials and finished products to ensure compliance with industry standards.
- Collaborated with senior engineers to optimize paint formulations, enhancing durability and color accuracy.
- Assisted in the calibration and maintenance of lab equipment to ensure accuracy in test results.
- Ensured compliance with **ISO 9001 quality standards**, contributing to a successful internal audit.
- Conducted **stability tests** on different paint formulations to assess long-term durability.
- Assisted in preparing **quality reports** for management, summarizing test results and improvement areas.

Professional Skills

- Analytical Thinking
- Communication Skills
- Leadership & Teamwork
- Negotiation & Stakeholder Management
- Attention to Detail & Problem-Solving
- Pressure Handling Techniques
- Adaptability with Organization work environment and culture

Technical Skills

- EPC (Engineering, Procurement, and Construction)

- Primavera P6
- Aspen Plus
- Excel (MS)
- Earned Value Management (EVM)
- Risk Management
- Water Treatment & Desalination
- Distillation & Separation
- Process Design & Simulation
- Heat & Mass Transfer
- Corrosion Engineering
- Excel (MS)
- Quality Control (QC)
- Chemical Process Optimization

Education

Bachelor of Science in Chemical Engineering
CGPA; 3.29/4.00

Sep 2020 - Aug 2024

University of Engineering and Technology, Lahore

Projects

Production of Methanol and DME from Syngas

Sep 2023 - Aug 2024

- Assisted in the production of **methanol** and **DME** from **syngas** via **catalytic conversion**.
- Optimized **gas-to-liquid (GTL)** processes, improving **reaction efficiency**.
- Monitored key **reaction parameters** (temperature, pressure, feedstock composition) for optimal yield.
- Supported **catalyst development** and process troubleshooting to enhance **thermal efficiency**.
- Contributed to minimizing **energy consumption** while maintaining product quality.

Achievements

Participation Final Year Projects Exhibition at **Pakistan Engineering Council** regional office Lahore. Showcased technical skills and project findings to faculty and industry professionals.

Certifications

- ✓ **Certified Planning Engineer – Primavera P6 (The Skill Age)**
- ✓ **Final Year Project Exhibition Participation (Pakistan Engineering Council)**