

# MOHAMED AYISH A A

## CHEMICAL ENGINEER

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### PROFILE

Petrochemical Engineering professional with experience in production and operations, skilled in process optimization, quality assurance, and project management. Seeking to apply my expertise to drive innovation and efficiency in a dynamic, forward-thinking organization within the petrochemical industry.

### SKILLS

Project management | Critical Thinking | Quality Control | Operations | Inventory Management | Management | Process Optimization | Petrochemical | Problem Solving

### PROFESSIONAL EXPERIENCE

#### Junior Engineer | Hindustan Petroleum Corporation Limited, Mumbai

Jun 2023 – Mar 2024

As an experienced professional in nitrogen gas production operations, I excel in managing and enhancing standards of quality, safety, and efficiency. I oversee compliance with environmental and safety regulations and implement data driven strategies for continuous improvement.

- **Quality Control** : I develop stringent quality control measures, ensuring precision at every production stage. By analyzing product data, I identify trends and prevent potential issues, leading investigations when deviations occur to maintain product integrity.
- **Safety and Compliance**: Safety is my top priority. I strictly adhere to safety protocols and continuously improve them, fostering a culture of safety within the plant. I ensure compliance with environmental regulations, regularly reviewing and adjusting processes to minimize impact and avoid regulatory penalties.
- **Data Management** : My data-driven approach includes analyzing metrics like equipment uptime and energy consumption to optimize production. I compile detailed reports to guide strategic decisions, driving improvements in efficiency and reducing waste.
- **Operational Excellence**: Through my efforts in quality control, safety, compliance, and data management, I contribute significantly to the plant's operational excellence. My work ensures efficient, safe, and compliant production, enhancing yield and reducing waste while maintaining the highest standards of quality and sustainability.
- **Process Optimization**: Monitored and analyzed production parameters (e.g., pressure, temperature, flow rates) to identify improvement areas, implementing process changes to increase yield, reduce energy consumption, and minimize waste. Conducted process simulations and modeling to evaluate potential improvements.
- **System Monitoring & Control** : Ensured optimal performance and reliability of production equipment (e.g., compressors, absorbers, heat exchangers) by continuously monitoring system parameters and implementing necessary adjustments for efficient operation.

**Production Engineer Trainee | Lake Chemicals PVT LTD,  
Bangalore**

Feb 2023 – Apr 2023

- Supported API production line operations, ensuring standard operating procedures compliance.
- Performed quality checks on raw materials, intermediates, and finished APIs to ensure compliance.
- Supported the implementation of process improvements and cost-reduction initiatives.
- Participated in training programs to enhance technical skills and knowledge in API manufacturing.
- Actively contributed to a positive and collaborative work environment.

**Skills achieved during training:**

- Strong understanding of chemical processes and manufacturing principles.
- Basic knowledge of quality control and regulatory compliance requirements (e.g., GMP).
- Skilled in analytical problem-solving and proficient in SAP, LIMS, and other relevant software.
- Ability to work effectively in a team environment Strong attention to detail and organizational skills.

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**EDUCATION**

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**B.E Petrochemical Engineering**

Aug 2019 – Apr 2023

*JCT College of Engineering and Technology/ Anna University*

**Higher Secondary**

Jul 2017 – Mar 2019

*Kerala board of Higher Secondary Education*

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**PROJECTS**

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**Energy Step-Up Using a Heat Pump in PRU | Hindustan**

Mar 2023 – Mar 2023

**Organic Chemicals LTD, Kochi**

This paper reveals the promising removal technology of propyle from LPG. Here we are recovering Lean Propylene (75% purity) from Liquefied Petroleum Gas(LPG), which is having approximately 28% propylene. In existing process there is having approximately 28%propylene. In existing process there is having huge energy loss in distillation column. Thus we proposed heat pump between condenser and reboiler, which helps to maintain work load of the condenser and provide additional heat to reboiler, helps conservation of energy. Thus we can improve the efficiency in PR.

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**INTERNSHIPS**

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**Intern | Infosys Springboard, India**

Nov 2022 – Nov 2022

Completed courses in Data Visualization, Machine Learning and Artificial Intelligence

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**LANGUAGES**

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English | Malayalam | Tamil | Hindi

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**EXTRA SKILL**

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**TECHNICAL SKILLS**

Safety and Compliance, Analytical Skills, Overseeing production processes, Process Improvement, Troubleshooting, Compliance and regulations, Reporting and documentation, Inventory management.

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**TRAINING AND CERTIFICATES**

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**Certification IN-PLANT Training - Kerala Minerals and Metals LTD.**