

Alistair Marshall

MEng CEng MICheM

Process & Control Engineer

Areas of Expertise

Oil and Gas
Risk assessments
Continuous operations
Advanced Process Control
Alarm management
Graphics & HMI development
Process safety
Procedure writing
Food production
Food safety
Advanced IT skills
Computer Automation
Programing (various languages)

Professional

Chartered Engineer
Chair IChemE Scottish Members Group
IChemE Applied HAZOP
IChemE Practical Distillation Technology
NEBOSH National General Certificate

Contact

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Personal Summary

I like to consider myself a “full stack” process engineer. From individual hand valves to advanced process control, I like to understand the full picture about how we operate and control the plant. I am flexible and can respond to unexpected and changing situations that regularly arise in my different roles.

Recent Employment

Process Control Engineer

Petroineos Manufacturing Scotland Ltd. (Grangemouth)
May 2015- Present

I work in the Automation and Modelling Team at Grangemouth refinery to make updates to the Distributed Control System (DCS), improving the controllability of the plant including Loop Tuning, Alarm Management, HMI, and Advanced Process Control. I am regularly sought out for my ability to provide programming solutions to a myriad of IT problems.

Area Specialist (Operations Engineer)

Petroineos Manufacturing Scotland Ltd. (Grangemouth)
November 2011- May 2015

I ensured the safe and efficient operation of my designated process units at Grangemouth refinery, the catalytic reformer and cryogenic units. I also provided leadership, direction and guidance to the shift operating teams through provision of operational engineering support.

Despite leaving the role in 2015, I have continued to be asked to provide technical leadership on the night shift during the yearly shutdown and maintenance events.

IChemE Voluntary Work

Chair – Scottish Members Group June 2019 – Present

The role of the chair is to lead the committee in organising a programme of events that enhances the value of IChemE membership, and in encouraging new members to participate.

Disastrous Dinners Coordinator 2018- Present

I devised and host Disastrous Dinners. This is a series of talks where members meet to discuss an accident or incident and what we can learn from it. After the presentation, there is a social dinner and drinks with lots of time to continue the discussion. I presented two talks myself and organised six other talks in the first year.

Academic & Professional Qualifications

Institution of Chemical Engineers

- Chartered Engineer (CEng)
- Member of the Institution of Chemical Engineers (MIChemE)

University of Edinburgh 2004-2009

- MEng Chemical Engineering (1st Class Honours)
- Salters Graduate Prize winner 2009

Training Courses

- Honeywell C300 Controller Implementation (September 2020)
- Honeywell Experion PKS Fundamentals (April 2018)
- AMT DMCplus Implementation (April 2016)
- Honeywell TPS Fundamentals (July 2015)
- NEBOSH Level 3 National General Certificate (October 2020)

Previous Employment

Graduate Operations Trainee (Operations)

British Sugar PLC (Newark & Norwich)

September 2009-October 2011

This was a factory-based position, working on shift to gain hands-on experience while learning the full production lifecycle.

In my second year, I took on the role of *Acting Shift Team Leader*. I was responsible for the safe operation of the factory during my shift whilst continuing to achieve the best economic performance of the plant, balancing the factors that affect the profitability of the plant (throughput, extraction and energy usage). During my time as *Acting Shift Team Leader*, I was also the direct line manager for the members of my shift.

Summer Vacation Student

ExxonMobil Chemicals Ltd. (Fawley)

June-August 2008

This eight-week course was based in the butyl polymers unit of the Fawley refinery, near Southampton. My project was to determine the suitability of an ultrasonic flow meter for use in a process line and present my findings to the rest of the butyl polymers process support group. With attention to safe working practices, this project involved daily site visits using the work permit system. This placement also gave me the chance to familiarise myself with the other units on the refinery and develop a greater understanding of the industry.

Personal Interests

In my spare time, I enjoy endurance running, writing code and reading widely. My favourite programming languages include Python and JavaScript though I have enjoyed dabbling in more some obscure languages as individual projects have required.