

Ahmad Atwa

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PROFILE SUMMARY

Experienced Specialist Engineer with a demonstrated history of working in Water Treatment and power plants industry. Skilled in Chemical engineering Designs, Power Plants, Nuclear Safety, Management Safety, Process Control, Procedure development.

EDUCATION

Higher Institute of Engineering.

Bachelor of Engineering, Major in Chemical Engineering.

Cairo, Egypt

Aug 2011 – May 2016

Plymouth Marjon University.

Master Of Business Administration, Major Energy and Sustainability.

Plymouth, UK

Aug 2023 – Jun 2025

PROFESSIONAL EXPERIENCE

Emirates Nuclear Energy Company – Nawah Operation.

Abu Dhabi, UAE

Operation Supervisor (HYPO-Chlorination Plant).

Jun 2022 – PRESENT

- Monitoring flow meters and temperature gauges to regulate the flow of chlorine.
- Chemical Filling, generators Acid Cleaning and concentration management of Chlorination System.
- Operate and Monitor the Chlorination Generating System Plant using SCADA-System, DCS and Control panel.
- Inspection of plant equipment regularly to monitor operational status.
- Following safety protocols and handling chlorine and other hazardous materials safely.

Korea Hydro & Nuclear Power (KHNP).

Abu Dhabi, UAE

Senior Process Engineer (Waste Water Treatment Plant).

Jun 2019 – Jun 2022

- Operating Waste water Oily Pond, Reaction Tank, Coagulation clarifier Tank Pressure Filters and Carbon filters.
- Managing the operation of sewage treatment, sludge processing, and disposal equipment to control the flow.
- Monitoring control panels and adjusting valves and gates manually or by remote control to regulate the flow of sewage.
- Collecting and testing water and sewage samples to ensure treated water meets or exceeds environmental standards.
- Determine chemical dosing from the analysis data such as pH, TDS, TSS, Conductivity.

Huvis Water – TSK Engineering.

Abu Dhabi, UAE

Senior Process Engineer (Condensate Polishing Plant).

Dec 2017 – Jun 2019

- Ensuring the condensate polishing unit (CPU) operates efficiently by controlling the ion exchange process.
- Managing the regeneration process to remove residual ions from the ion exchange resins.
- Performing routine maintenance and troubleshooting to ensure the CPU operates smoothly and efficiently.
- Identify urgent and emerging issues to line management to ensure expedient mitigation.
- Adhering to safety protocols and environmental regulations to ensure safe and compliant operations.

SanMar.

Port Said, Egypt

Junior Process Engineer (Petro - Chemical Plant).

Aug 2016 – Dec 2017

- Operate and monitor water treatment equipment and processes under the supervision of senior operators.
- Gathering water samples from various treatment process and performing basic tests to monitor water quality.
- Keeping accurate records of operational data, test results, and maintenance activities.
- Assisting with routine maintenance tasks such as cleaning, inspecting, and minor repairs on equipment.
- Gaining hands-on experience and knowledge about the water treatment processes and equipment.

OTHER

- Technical Skills: OSHA, IOSH, HYSYS, Project Management, Data Analysis, HAZOP & Lean Six Sigma.
- Personal Skills: Analytical skills, Problem-solving, Communication and team working Skills.
- Languages: Fluent in Arabic (Native), & Advanced in English (IELTS OVERALL: 5.5).
- Certifications: Certified Water Treatment Facilities Operator from Emirates Nuclear Energy Company.