

Holds a B. Sc. in Special Chemistry and Diplomas in Applied Chemistry and Analytical Chemistry. Has about 21 years of experience in power generation, water treatment and chemical plant operations. Proven track record in supervising lab activities, maintaining boiler and water chemistry and ensuring compliance with MSDS, HSE and plant safety standards. Skilled in chemical dosing, preventive maintenance planning, water quality monitoring and leading lab audits. Strong background in technical reporting, calibration of lab equipment and inventory control of chemicals and consumables. Committed to driving safe operations, improving system performance and supporting asset integrity across utilities and chemical sections.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 06/11/1979
Gender : Male
Marital Status : Married
Residence : El-Behira

EDUCATION

- : B. Sc. in Special Chemistry, Alexandria University, 2001
- : Diploma in Applied Chemistry, Tanta University, 2012
- : Diploma in Analytical Chemistry, Tanta University, 2014

LANGUAGES

Arabic : Native Language
English : Very Good

COMPUTER SKILLS

- : Windows, MS Office, Internet
- : CMMS software
- : AutoCAD
- : MS Project

TRAINING COURSES AND CERTIFICATIONS

- : Off-shore Operation Training by Metito Overseas Ltd UAE:
 - Demineralization Plant.
 - Pre-treatment Plant.
 - Sewage Treatment Plant.
 - Potable Water System.
 - Waste Water Treatment.

- Oil Water Separator System.
- Chemical Injection System.
- Steam Water Analysis System.
- : Water Treatment in Power Plant, Abu Qir Electricity Training Center.
- : Corrosion and Cathodic Protection in Power Plant, MDEPC Training Sector.
- : Turbines Oils, Central Chemical Labs.
- : HSE, MDEPC Training Sector.
- : Fire-fighting, Certificate given from Ministry of Interior.
- : English: Course for Non-Specialist, MDEPC Training Sector.
- : Computer: ICT Course.

CHRONOLOGICAL EXPERIENCE RECORD

Dates	:	From Apr. 2024 till now
Employer	:	Bonatti
Project	:	Zubair Oil Field – Basrah, Iraq
Job title	:	Production Chemist
Job Description	:	• Optimize fuel gas processing operations, ensuring efficiency and adherence to safety protocols. • Supervise day-to-day chemical plant operations including chemical dosing, lab sampling, and system monitoring to maintain water and boiler chemistry within acceptable limits. • Maintain plant chemistry parameters for optimal operation and long-term integrity. • Perform daily analysis of raw water, wastewater, boiler water, steam, cooling tower water, and closed cooling systems, ensuring system chemistry remained within prescribed limits. • Operate and monitor water treatment plant systems including production and regeneration cycles. • Conduct quality assurance checks, method validation, and calibration of analytical instruments. • Manage and execute capital projects in alignment with scope, schedule, budget, and HSE requirements. Directed the implementation of preventive and corrective maintenance plans for chemical systems and lab equipment, ensuring operational continuity. • Lead and guided staff on workplace safety procedures, MSDS handling, and best practices in line with plant HSE policies. • Maintain accurate records of chemical usage, dosing schedules, and plant parameters, in line with regulatory and company standards. • Conducted laboratory sample analysis, solution preparation, and procedural adherence reviews to ensure analytical integrity.
Dates	:	From Nov. 2021 till Apr. 2024
Employer	:	SPM Oil & Gas / Caterpillar Company
Project	:	Zubair Oil Field – Basrah, Iraq
Job title	:	Production Chemist
Job Description	:	• Managed the procurement and inventory of bulk chemicals, fine chemicals, lab glassware, and consumables by initiating timely purchase

requisitions.

- Oversaw water treatment plant operations, and scale impact.
- Managed the preventive maintenance and calibration of laboratory equipment, ensuring reliability and compliance.
- Promoted a proactive safety culture and support health and safety initiatives within the plant.
- Organized and conducted testing of routine and non-routine hydrocarbon (gas), water, and wastewater samples from various refinery process units.
- Applied ASTM, ISO, and API standards to maintain laboratory quality and reliability.
- Increased hot water heater efficiency by 20% through process optimization.
- Supported operations teams during planned and unplanned shutdowns, startups, and turnaround activities.
- Assessed unit operating conditions and transient effects to recommend improved operational strategies.
- Monitored chemical inventory levels and laboratory consumables to ensure timely availability and uninterrupted services.

Dates	:	From Feb. 2018 till Nov. 2021
Employer	:	EGYPTROL , SIEMENS AG Subcontractor / AC Boiler Subcontractor
Projects	:	• Burullus Combined Cycle Power Plant 4800MW (SIEMENS) • South Helwan Power Plant 3x650MW (AC Boiler) • CAIRO WEST Power Plant (650MW Supercritical boiler) (AC Boiler)
Job Description	:	• Commissioning Chemist (from Apr. 2021 till Nov. 2021) (CAIRO WEST Power Plant (650MW Supercritical boiler): - Review the chemical cleaning of HRSG. - Ensured wastewater quality is within the legal environmental limits before disposal. - Developed and oversaw project schedules, budgets, and progress tracking. - Monitored contractor performance, ensuring adherence to timelines, milestones, and deliverables. - Ensured seamless integration of plant processes with operational and maintenance objectives. - Condensate polishing system commissioned and started-up. - Collected and tested samples of lubricants and oil from critical rotating equipment and machinery. - Ordered all required chemicals tools and maintain chemical inventory. - Developed and implement HSE plan for chemical activities on-site. - Conducted evaluations and risk assessment on environmental and safety hazards of construction development and operational activities. - Conducted process hazard analysis (PHA), risk assessment, and safety reviews for assigned projects. • Commissioning Chemist (from Nov. 2019 till Apr. 2021) (South Helwan Power Plant 3x650MW): - Conducted reliability tests and normal operation. - Ordered all required chemicals tools and maintain chemical inventory.

- Developed and implement HSE plan for chemical activities on-site.
- Conducted evaluations and risk assessment on environmental and safety hazards of construction development and operational activities.
- Optimized chemical dosing, reducing costs by 15%.
- Reviewed the chemical cleaning of HRSG.
- Play a key role in commissioning, testing, and process tuning to meet operational targets.
- Collaborate with cross-functional teams, operations personnel, and external contractors to ensure project success.
- Managed and resolve contractor claims, technical challenges, and process-related modifications.
- Provided technical oversight for engineering services, project execution, and refinery process enhancements.
- Maintained the boiler water steam quality within the recommended limits.
- Production Chemist (from Dec. 2018 till Nov. 2019) (Burullus Combined Cycle Power Plant 4800MW):
 - Supervised laboratory activities, ensuring compliance with siemens quality standards, work instructions, and HSE procedures.
 - Maintained effective communication with internal teams, contractors, and stakeholders.
 - Oversaw subcontractor compliance and assist in the pre-qualification process.
 - Contributed to Key Performance Indicators (KPI) monitoring and client reporting.
 - Supported the implementation of Management of Change (MOC) processes for continuous improvement.
 - Conducted process safety reviews and alarm rationalization to ensure regulatory compliance.
 - Developed and maintain Standard Operating Procedures (SOPs), risk management strategies, and process hazard assessments.
 - Optimized oil-water separation systems for efficient operation and resource recovery.
 - Provide engineering support for construction, maintenance, and repair activities.
 - Work with plant management and operational teams to optimize equipment performance.
 - Develop, review, and update Standard Operating Procedures (SOPs) for safe and efficient plant operations.
 - Support the shutdown planning and scheduling activities for process and maintenance improvements.
 - Troubleshoot process issues, recommend corrective actions, and implemented improvements to enhance plant efficiency.
 - Assisted in producing and implementing safe work systems and procedures.
 - Improved water treatment efficiency, reducing chemical waste by 20%.
- Commissioning Chemist (from Feb. 2018 till Dec. 2018) (Burullus Combined Cycle Power Plant 4800MW):
 - Reviewed the chemical cleaning of HRSG.
 - Ensured wastewater quality is within the legal environmental limits before disposal.

- Applied HRSG boiler treatment & closed cooling water.
- Started-up of the chemical dosing system.
- Condensate polishing system commissioning and start-up.
- Started-up of the sampling system with its required calibrations and reagent preparation for the online analyzers.
- Maintained the boiler water steam quality within the recommended limits.
- Conducted reliability tests and normal operation.
- Performed catalyst evaluations, test runs, and de-bottlenecking studies to enhance unit efficiency.
- Utilized process simulation software (e.g., Aspen HYSYS, Honeywell UOP, Axens tools) for operational assessments.
- Review and update plant documentation, P&IDs, relief valve assessments, and refinery work procedures.

Dates	:	From 2005 till Feb. 2018
Employer	:	MDEPC (Middle Delta Electricity Production Company)
Project	:	Nubaria Combined Cycle Power Plant 2250MW
Job titles	:	• Operating & Maintenance Chemist (from 2012 till Feb. 2018) • Shift Chemist (from 2005 till 2012)
Job Description	:	• Conducted chemical analysis and laboratory tests to ensure process efficiency and compliance with industry standards. • Monitored and maintain HRSG sampling systems to ensure accurate water and steam quality assessments. • Oversee water treatment processes including Reverse Osmosis (RO), Ultrafiltration (UF), and Electro deionization (EDI) to ensure high-purity water production. • Perform instrumental analysis (GC, HPLC, ICP, FTIR, Spectrophotometry, Titration, etc.) for hydrocarbon and water testing. • Monitor laboratory performance and ensure adherence to refinery health, safety, and environmental (HSE) standards. • Oversaw the execution of Management of Change (MOC) procedures for plant modifications. • Ensured effective chemical dosing and performance monitoring in closed cooling and condensate polisher systems to prevent corrosion and scaling. • Oversaw subcontractor compliance and assist in the pre-qualification process. • Contributed to Key Performance Indicators (KPI) monitoring and client reporting. • Troubleshoot process issues, recommend corrective actions, and implemented improvements to enhance plant efficiency. • Ensure compliance with HSE (Health, Safety, and Environment) standards in all chemical operations.
Field of experience	:	• Process Optimization & Troubleshooting. • Hydrocarbon Separation & Refinery Operations. • Water Treatment (RO, UF, EDI, Sewage, Potable Water). • HRSG Sampling & Condensate Polishing. • Laboratory Analysis & Quality Control. • Chemical Dosing & Corrosion Monitoring.

- HAZOP & Process Safety Management.
- Equipment Commissioning & Start-up.
- Data Analysis & Performance Monitoring.
- IMS & Regulatory Compliance.
- Laboratory Management & Testing Oversight.
- SAP Administration & Inventory Management.
- Experience with Honeywell UOP, Axens and hydrocarbon treating technologies.