

Holds a B. Sc. in Special Chemistry and has about 16 years of work experience in any large water treatment plant process and Power Plants.

## **PERSONAL DATA**

Nationality : Egyptian  
Birth Date : 14/07/1982  
Gender : Male  
Marital Status : Married  
Residence : New Assiut

## **EDUCATION**

: B. Sc. in Special Chemistry, Al-Azhar University, 2005

## **LANGUAGES**

Arabic : Native Language  
English : Good

## **COMPUTER SKILLS**

: Windows, MS Office, Internet

## **TRAINING COURSES AND CERTIFICATIONS**

- : Training course in Assiut Oil Refining Co. (summer 2003).
- : Certificate of improvement principles in technology information, Assiut University (Sep. 2006).
- : Certificate from Central Chemical Laboratories from Ministry of Electricity in Egypt (Nov. 2007).
- : Certificate of AMEDC from Medical Faculty in Assiut (Dec. 2009).
- : Training courses of computer (ICDL – HTML – Pascal ...etc.).
- : Certificate of Training for laboratory equipment from KOMROWSKI Company (Feb. 2012).
- : Certificate of Training for laboratory equipment from Samoral Company (Feb. 2018).
- : Certificate of Training for advanced Course of Cooling Tower from Water Technology Expert Forum (Feb. 2020).
- : Many online courses from LinkedIn.

# CHRONOLOGICAL EXPERIENCE RECORD

**Dates** : From May 2017 till now  
**Employer** : ELSEWEDY Electric PSP  
**Projects** :

- Neuweibaa SWRO 15000 m3/day in Egypt (Lead Chemist)
- From Feb. 2020 - 5 months in UAE, Sharjah Layyah CCPP 1100MW (Lead Chemist)
- From Dec. 2019 - Feb. 2020 in Egypt Assiut Supercritical Power Plant 650MW (Lead Chemist)
- From May 2017 - Dec. 2019 in Egypt, Beni Suef CCPP 4800MW (Lead Chemist)

**Job Description** : Senior Lead Chemist (from Jan. 2022) in HQ of company, with the Engineering Process water treatment and Commissioning Operations Teams for power and water projects PSP company to control and provide chemistry input for Process flow, routine maintenance, troubleshooting, repairs and documentation for all plant equipment. Ensure troubleshooting and maintenance activities are carried out according to procedures, standards, specifications, manufacturer's recommendations and relevant contract terms.

**Dates** : From Mar. 2016 till Aug. 2016  
**Employer** : Shanahan Engineering Ltd, KSA  
**Job title** : Operation Commissioning Chemist

**Dates** : From Oct. 2013 till Mar. 2016  
**Employer** : TNB REMACO KHARAFINATIONAL JV  
**Project** : SHUAIBA North Combined Power & Water Plant in Kuwait  
**Job title** : Assistant Chemical Section Lead

**Dates** : From Aug. 2010 till Sep. 2013  
**Employer** : KHARAFI NATIONAL  
**Project** : SHUAIBA South Power & Water plant (6x150MW & 6 x 5 MIGD), Kuwait  
**Job title** : Chemist

**Dates** : From Oct. 2006 till Jul. 2010  
**Employer** : UEEPC  
**Project** : Assiut Thermal Power Plant 2x300MW  
**Job title** : Shift Chemist  
**Job Description** : Chemist and laboratory analysis (external water treatment, internal water treatment).

**Field of experience** :

- Solid background and expertise on EPC Projects, specifically on Power & Water Treatment plant, Utility and/or Infrastructure type Projects.
- Technical knowledge of start-up operations, maintenance, and/or testing, including the development of commissioning and start-up manuals and associated method statements.
- Knowledge of engineering systems and calculations, applications of both

engineering and start-up methods, coupled with knowledge of computer applications related to the close out and resolution of engineering problems.

- Knowledge of latest developments in the related field.
- An extensive knowledge of precedents in the start-up and operations areas and a broad knowledge of principles and practices of related areas.
- A broad knowledge of industry and regulatory standards and criteria pertinent to start-up, maintenance, operations, or testing.
- Demonstrated skill in leadership.
- Broad progressive work experience to the degree necessary to perform the responsibilities outlined above aligned with commissioning, initial start-up and operation activities or other relevant experience in design engineering, construction, field engineering or plant operation in industrial, process, or marine facilities.
- Essential Responsibilities:
  - Participation in audits regarding laboratory and plant chemistry issues:
    - Arrange the commissioning time schedule with respect to the project overall time frame.
    - Develop and update master test plan or the project plan.
    - Develop risk assessments Comply with safety measurements.
    - Completing the required commissioning activities according to the National Standards.
    - Submit the red line drawing and the as built drawing after finishing all commissioning activities.
    - Preparing handing over the commissioned systems to the operation team.
    - Lead the pre-commissioning / commissioning activities for areas of responsibility.
    - Act as delegate to Commissioning Manager to review/accept mechanical completion packages from construction and review/offer system handover packages to operations.
    - Attend mechanical completion and system handover joint walk downs as required.
    - Closing the audits points in time.
    - Following the actions and submit the justification before closing.
    - Responsible for preparing/reviewing work permits for commissioning scope. May be required to act as the Issuing Authority.
    - Attend daily Progress meeting and provide input / comments as required.
    - Provide daily feedback as to commissioning status for his respective scope and generate weekly activity reports. Coordinate commissioning resources allocation to support.
    - Manage and interpret completions progress while maintaining a forward thinking approach to planning activities over the long term.
    - Manage closeout of punch list items for systems.
    - Review and progress material deficiencies that affect safe and efficient commissioning activities and identify impact on commissioning schedule.
    - Work closely with the Vendor coordinator to schedule vendor requirements for commissioning tasks. Coordinate vendor support including training requirements and understand vendor's /

- contractor's commissioning and start-up work processes.
- Ensure that preservation and maintenance on systems correctly identified and is being carried out in accordance with Preservation Procedure.
- Be familiar with the Project Management of Change Procedure and Site Change Control and Technical Queries procedure.
- Ensure all relevant As-Built Drawings / Documents are marked up as defined in project As- Built Procedure.
- Ensure all relevant As-Built Drawings / Documents are marked up as defined in project As- Built Procedure.
- Maintain the safety standards and comply with Company's Health, Safety and Environment Management System Requirements.
- Take reasonable care of own health and safety and that of others in the workplace.
- Follow and maintain Company standards of Quality in accordance with Company Quality System Requirements.
- Start-up, commissioning, Controls, monitors and Operation process from DCS and PLC base for:
  - Chlorination plant, pre-treatment plant for potable, domestic water and Industrial waste and sewage units.
  - Demi plant (Ion ex changers) & Condensate polishing plant.
  - Ultra filtration, Reverse Osmosis and EDI system.
  - Distillation, Re-carbonation.
- Control Chemical Dosing system and quality of water and steam during Start-up and shut-down procedures for thermal power plant (Cold, Warm, and Hot Start-up and normal or emergency shut-down) and HRSG.
- Team Leader, good interpersonal skills for subordinates' development, team building and conflict resolution.
- Good knowledge of preventive and scheduled predictive commissioning principles, working procedures.
- Analyzing samples from various sources (Raw water, Demi plant water, Pre-treatment water, waste water, thermal cycle water, distillation water, closed cooling water, Re-carbonated water, transformer, turbine, lube Oil, heavy fuel and heat transfer fluids) to provide information on compounds quantities of compounds present, using analytical techniques and instrumentation.
- Experience in the operation and/or calibration of analyzers such Laboratory Equipment, Furniture and instruments including, but not limited to titrations, spectrophotometer analysis and ion selective analyses, ICP, AAS, flash point, cloud and Pour point, viscometer and Lube Oil Tester, Determination of Sulphur & Asphaltene Content.
- Implement calibration for much kind of analyzers instrument and prepare reagents, calibration and cleaning solution (lab and field pH meter and Conductivity meter), (Silica analyser, Hydrazine, Ammonia, Oxygen and Sodium analyser).
- Boiler passivation and preservation.
- Knowledge of chemical cleaning for (air heater, super heater, boiler, Gas Turbine compressor& condenser) and acid cleaning of Desalination plants.
- Calculate and reporting the rates weekly and monthly of consumption of chemicals and to compare the design specifications.
- Knowledge of Steam blow of (Boilers & HRSG), distillation plant, Re-

- carbonation plant and sewage water plant.
- Knowledge and Calculate chemicals to Open & closed cooling water.
  - A review of the work of clearing lines for drinking water until further tap drinking water network in power plants.
  - Follow-up programs to measure the emissions of various stations, Revision additions materials and their impact on emissions from the combustion process.
  - Capabilities and Competencies:
    - Core: Work as an effective team member, per priority, dealing with complexity and result driven, work well with levels of management and personal, learn new technologies, and Attention in terms of training and raising the efficiency of expertise and care to attend seminars and conferences on chemistry and Environmental Affairs, HSE Compliant, Team Oriented, Respectful, Professional Work Ethics, Communication.
    - Technical: MSDS Knowledge, Risk Assessment, Root Cause Analysis, Chemical Handling, HAZWOPER, Emergency Response Management, Report Writing, Developing Others, Job/Technical Knowledge and Ready to work on rotating shift and familiar with shift duties and to Work in a variety of weather conditions with exposure to the outdoor harsh conditions (heat and dust).