

Holds a B. Sc. in Chemistry and has about 12 years hands-on experience, including 10 years working in Commissioning & Operation which related to industrial projects such as Power generation, Utilities, desalination, water treatments / wastewater treatment & Sewage treatment projects, Chemical laboratory's.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 23/06/1987
Gender : Male
Marital Status : Married
Residence : Giza, Cairo

EDUCATION

: B. Sc. in Chemistry, Cairo University, 2008
: Pre-master degree in analytical chemistry, Cairo University

LANGUAGES

Arabic : Native Language
English : Excellent

COMPUTER SKILLS

: Windows, MS Office, Internet

TRAINING COURSES AND CERTIFICATIONS

: Training in Cairo University Center for Hazard Mitigation.
: Training on Basic and site specific training courses, constituting a program of concentrated study of power plant equipment and system theory and application by Cairo Electricity Production Company (for 3 months).
: On-Shore operation and maintenance training for Cairo West Power Station (units 7 & 8) Water and Waste Water treatment for one month by METITO Company.
: Training on Operation & Routine protective maintenance of SO₂ & NO & NO₂ & NO_x & CO and Flue Gas Analyzers by CTS (chemical and Technical Service) Company.
: Training on Corrosion types and types of protection by Society of Mechanical Engineer.
: Training on Air pollution and emission by Cairo West Power Station.

- : Training on all HACH ULTRA –POLYMETRON ultra pure water analyzers SENTRY sample conditioning and analysis panel by IBERFLUID instruments (INITEC Energia).
- : Training on Hydrogen plant operation and maintenance at Cairo west thermal plant by Spirare Energy (INITEC Energia).
- : Training on all laboratory device such as Atomic Absorption, spectrophotometer (double beam), Turbidity, oil content, Karl Fischer, PH, conductivity, Dissolved oxygen, chlorine and..... etc.
- : Operation and maintenance training for potable water plant contain Nano filter by Middle East Company.
- : Training on HRSG engineering and design.
- : Training on HRSG pressure parts and vessel as (dearator, drum and.....).
- : Training on HRSG lay-out and equipment.
- : Training on HRSG operation activity.
- : Training on operation and maintenance of SWAS system (steam water analysis system) in Giza North Power Station.
- : Training on HRSG chemistry chemical cleaning and preservation.
- : Off-Shore training program for Giza North Power Station Water and Waste Water treatment (Jan./Feb. 2015) in United Arab Emirates (UAE).
- : On-Shore operation and maintenance training for Giza North Power Station Water and Waste Water treatment for one month by METITO Company.
- : Off-Shore training program for Giza North Power Station electrical transformer (Oct./Nov. 2016) in China.
- : Training on chemical cleaning process by VECOM Co.

CHRONOLOGICAL EXPERIENCE RECORD

Dates	: From Nov. 2018 till Dec. 2019
Employer	: EGYPTROL , AC Boilers Subcontractor
Project	: South Helwan Supercritical Power Project (3x650MW)
Job title	: Consultant Chemist
Job Description	: <ul style="list-style-type: none"> • Follow up and attend all commissioning / start-up activity of Ultra filtration (UF), reverse osmosis (RO), condensate polishers (CPP), waste water system, oily water separator, sewage water (STP) system, boiler chemical feed systems, chlorine gas feed system (3 x 1350 kg/hr.), potable water system and follow up its operation during the project period. • Follow up the CIP and CEB of Ultra filtration (UF) and reverse osmosis (RO) units. • Supervisor on chemical cleaning process of the three supercritical boilers (3x650MW), condensate and feed water systems which done by VECOM & ENSOL Company. • Follow up the installations and commissioning of water analysis lab, oil analysis lab and biological / environmental labs which included GC, TOGA, TOC, IC, Atomic Absorption, double-single beam Spectrophotometer....etc. • Follow up the operation and regeneration of three Condensate Polishers System (3x900 m³/hr.) and Demineralization System (Mixed Bed Exchanger).

Dates : From Feb. 2018 till Nov. 2018
Employer : Techint Engineering & Construction
Projects : WEST DAMIETTA AND AL-SHABAB POWER PROJECTS, CONVERTING EXISTING SIMPLE CYCLE TO COMBINED CYCLE, 4 x HRSG + one Steam turbine
Job title : Lead Commissioning Chemist
Job Description :

- Start-up, commissioning and Operation for waste Water, oily water separator, sewage water, HRSG chemical feed system and Potable Water Systems at West Damietta combined cycle power project.
- Start-up, commissioning and Operation for waste Water, oily water separator, sewage water, HRSG chemical feed system and Potable Water Systems at Al-Shabab combined cycle power project.
- Start-up, commissioning of closed cooling cycle.
- Start-up, commissioning of Chemical injection systems and sampling systems.
- Start-up, commissioning of Condensate polishing system.
- Perform on-shore training for waste Water, oily water separator, sewage water, HRSG chemical feed system and Potable Water Systems to the clients in WEST DAMIETTA and AL-SHABAB POWER PROJECTS.
- Installed all laboratory devices of Main laboratory, oil analysis lab and biology laboratory with its tools, instruments, chemicals and furniture in WEST DAMIETTA and AL-SHABAB POWER PROJECTS.

Dates : From Jun. 2012 till Feb. 2018
Employer : CEPC
Project : Giza North Power Project (3x750MW) Combined Cycle
Job title : Senior Chemist (Operation, Lab. and maintenance)
Job Description :

- Start-up, commissioning and Operation for Pretreatment clarifiers, Ultra filtration (UF) & waste Water & oily water separator & sewage water and Potable Water Systems.
- Start-up, commissioning, Operation and Regeneration of Demineralization System(Cation, Anion, organic trap and Mixed Bed Exchanger).
- Follow up the operation and maintenance of chlorine gas feed system for potable, sewage, pretreatment and circulating system (3 x 720 kg / hr.)
- Start-up, commissioning and Operation for RO (Reverse Osmosis) and NANO filter plants.
- Follow up the chemical cleaning of NANO filter and RO (Reverse Osmosis) plant.
- Follow up the operation, CEB and CIP of Ultra filtration units.
- Describe and Follow up the mechanical and Electrical Maintenance.
- Controlling and calculating all Chemicals dosing and quantity of Chemicals used in water treatment operation.
- Perform all chemical analysis for determine chemical dose of Boiler (ammonia & hydrazine and phosphate).
- Perform all chemical analysis and Preparations to adjust the specifications of pretreatment & demineralized water and chemical feed systems.
- Follow up the environmental and social impact assessment of Giza north project.

- Perform Calibration and maintenance of all online analyzer such as (PH meter & Conductivity meter & Turbidity meter & Sodium analyzer & Silica analyzer & TOC analyzer & Residual Chlorine Analyzer and Dissolved Oxygen Analyzer).

Dates : From Jul. 2010 till Jun. 2012
Employer : CEPC
Project : Cairo West Power Project (units 7 & 8) (2x350MW)
Job title : Chemist
Job Description :

- Handed over all the water treatment systems from METITO company after finishing all the reliability tests and performance tests.
- Follow up reliability tests and performance as per contract for pretreatment, dematerialized & condensate Polisher & Chemical feed & Waste systems and it's dosing of chemicals and make required analysis to adjust quality.
- Perform Calibration curve and analysis for double beam Spectrophotometer.
- Perform Calibration Curve and analysis for Atomic Absorption Spectroscopy.
- Perform operation and Calibration of all bench top analyzer as oil Content & Karl fisher & visible Calorimeter & PH meter & Conductivity meter and Turbidity meter.
- Follow up operation and maintenances of two air-monitoring shelters.
- Follow up operation and maintenances of stack CEMS (Continuous Emissions monitoring system).
- Follow up the efficiency of Oil Transformer.
- Follow up closed cooling dosing system.
- Perform training for online analyzer as (PH meter & Conductivity meter & Turbidity meter & Sodium analyzer & Silica analyzer & TOC analyzer & Residual Chlorine Analyzer and Dissolved Oxygen Analyzer) to all chemists in Cairo electricity Production Company every year.

Dates : From Sep. 2009 till Jul. 2010
Employer : CEPC
Project : Cairo West Power Project (units 5 & 6) (2x350MW)
Job title : Operation Chemist
Job Description : Maintaining Safe and Efficient operations for the following:

- Pretreatment clarifier & MM filters & Carbone filters and demineralization mixed beds.
- Condensate polisher systems.
- Chemical injection systems and required chemical analysis.
- Sodium hypo Chlorite injection systems.
- Waste water treatment facilities, Oil / Water separation units.
- Manage all the chemistry programs required to maintain boilers water/steam systems in the limits.
- Provide annual budget for chemistry operations.
- Natural Gas and Fuel Oil quality.
- Follow up the Transformer Oil quality.

Dates : From 2008 till 2009
Employer : EMA Pharm Company
Job title : Medical Representative

Skills:

- Perform training for online analyzer as (PH meter & Conductivity meter & Turbidity meter & Sodium analyzer & Silica analyzer & TOC analyzer & Residual Chlorine Analyzer and Dissolved Oxygen Analyzer) to all chemists in Cairo electricity Production Company every year.
- Trouble shooting, correction and corrective actions.
- Cost reduction & consumption optimization.