

Holds a B. Sc. in Chemistry and has over 16 years hands-on experience working as Chemist.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 10/04/1986
Gender : Male
Marital Status : Married
Residence : Giza, Cairo

EDUCATION

: B. Sc. in Chemistry, Helwan University, 2007

LANGUAGES

Arabic : Native Language
English : Very Good

COMPUTER SKILLS

: Windows, MS Office (Word, Excel, Access, Power Point), Internet

TRAINING COURSES AND CERTIFICATIONS

- : Helwan University Computer Lab (2007).
- : International Computer Driving License (ICDL) (2007), this certificate is under supervision of Unisco and Ministry of Communication and Information Technology.
- : Training at National Cement Company (Jul. 2007).
- : Training at Institution of Petroleum (Aug. 2007).
- : Thermal Insulation and Refractory Materials for Industrial Furnaces Course for 40 hrs with Prof. Dr. Mohamed A. Serry, National Research Center.
- : INTERNAL AUDIT COURSE FOR QMC - ISO 9001/2008 (Apr. 2010).
- : UV.VIS adsorption Spectroscopy.

CHRONOLOGICAL EXPERIENCE RECORD

Dates : From Apr. 2019 till now
Employer : SIEMENS O&M
Project : BENI SUEF CCPP 4800MW
Job title : Senior Operation Chemist

- Job Description** :
- Control and monitor the operation process from DCS and PLC base.
 - Operation of the chlorination plant (C.W & Raw water chlorination).
 - Operation of the pre-treatment plant for potable, domestic water and waste units.
 - Operation of the Demi plant (cation exchangers, DE carbonator, anion exchangers and Mixed Bed exchangers).
 - Operation of polishing plant and regeneration.
 - Operation of Ultra filtration, Reverse Osmosis and EDI system.
 - 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.
 - Analyzing samples from various sources of water (transformer, turbine, lube Oil, heavy fuel and heat - transfer fluids) to provide information on compounds quantities of compounds.
 - Make calibration for much kind of analyses instrument and prepare reagents, calibration and cleaning solution (lab & field and online instrument).
 - Boiler passivation and preservation.
 - Know a lot of chemical cleaning for (air heater, super heater, boiler, Gas Turbine compressor & condenser and Desalination plants).
 - Calculate and reporting the rates of consumption of chemicals and to compare the design specifications.
 - Knowledge a lot of Steam blow of (Boilers & HRSG), distillation plant, Re-carbonation plant and sewage water plant.
 - Follow-up programs to measure the emissions of various stations, Revision additions materials and their impact on emissions from the combustion process.

Dates : From Dec. 2017 till Mar. 2019

Employer : ELSEWEDY POWER SYSTEM PROJECTS (PSP)

Project : Beni Suef Project Site 4x1200MW

Job title : Senior Commissioning & Operation Chemist

- Job Description** :
- Control and monitor the operation process from DCS and PLC base.
 - Start-up and commissioning and operation of the chlorination plant (C.W & Raw water chlorination).
 - Start-up and commissioning and operation of the pre-treatment plant for potable, domestic water and waste units.
 - Start-up and commissioning and operation of the Demi plant (cation exchangers, DE carbonator, anion exchangers and Mixed Bed exchangers).
 - Start-up and commissioning and operation of polishing plant and regeneration.
 - Start-up and commissioning and operation of Ultra filtration, Reverse Osmosis and EDI system.
 - 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.
 - Analyzing samples from various sources of water (transformer, turbine, lube Oil, heavy fuel and heat - transfer fluids) to provide information on compounds quantities of compounds.

- Make calibration for much kind of analyses instrument and prepare reagents, calibration and cleaning solution (lab & field and online instrument).
- Boiler passivation and preservation.
- Know a lot of chemical cleaning for (air heater, super heater, boiler, Gas Turbine compressor & condenser and Desalination plants).
- Calculate and reporting the rates of consumption of chemicals and to compare the design specifications.
- Know a lot of Steam blow of (Boilers & HRSG), distillation plant, Re-carbonation plant and sewage water plant.
- Follow-up programs to measure the emissions of various stations, Revision additions materials and their impact on emissions from the combustion process.

Dates : From May 2015 till Dec. 2017

Project : El-Kureimat Power Plant (2x650MW)

Job title : Operation Shift Chemist

Job Description :

- Laboratory Chemist & operating as Shift Chemist in field of Operating, controlling and make qualitative, Quantitative, spectrophotometer and Chromatographic Analysis for:
 - Dematerialized system forming Demi water (soft Water) without any salts.
 - Waste water treatment system (treatment to waste Water to back to river Nile).
 - Pre-treatment system (treatment of the Nile water).
 - Sewage water treatment system (treatment the Sewage water to the Nile River).
 - Chlorination system (injection the chlorine to kill Microorganism).
- Following installation and operation of sampling system and on-line analyzer (Silica analyzers, sodium analyzer, conductivity meters, PH meters and dissolved Oxygen analyzers) make calibration and prepare chemicals for online analyzers to control the boiler water, condensate and steam cycle quality.
- Following operation of chemical feed system (Ammonia, Hydrazine and Phosphate) to adjust chemicals feeding to the boiler.
- Following installation and operation for D-M-S (Data management system), which control chemical injection in boiler water, condensate and steam automatically according to the reading of on-line analyzers.
- Following operation of condensate polishing System and required its water analysis.
- Potable water treatment (treatment the Nile water to form potable water).
- Oil & fuel analysis.
- All chemical analysis for water quality control.
- Reverse osmosis (treatment for water by reverse Osmosis).

Dates : From Apr. 2009 till May 2015

Employer : Cairo Electricity Production Co.

Job title : Operation Shift Chemist

Job Description :

- Pre-commissioning, commissioning and start-up of water treatment unit (RO system).

- Managing O&M of water processes equipment and facilities to produce Demineralized water with capacity 30 m3/hour.
- Setting of dosing rate of RO plants chemicals.
- Cleaning, Preservation and Regeneration of UF, R.O, Mixed Bed (CIP, CEB & Regeneration).
- Make full analysis for water.
- Preparing shift chemical consumption report.
- Feed treated water and chemicals to Closed Cooling & Cooling towers.
- O&M wastewater treatment processes (IWWT, Oil-Water separator, Sewage).

Dates : From May 2007 till Apr. 2009

Employer : Asfour for Mining and Refractories Co.

Job title : QC Chemist

Job Description :

- Worked in the quality control department for testing the quality of Bricks, Concrete, and all our products of high thermal insulation (Refractoriness) and also for all steps of product line as quality of Rotary kiln products, tunnel kiln by physical testing using XRD, Thermal conductivity, Cold Crushing Strength (CCS), Refractoriness Under Load (RUL) and other handing methods. Also, chemical analysis by wet analysis.
- Received Training Course by the company about History of Refractories, Manufacture Process, Problems of Industry, Cement and Steel Refractories Prepared (Thermal Insulation and Refractory Materials for Industrial Furnaces).