

Holds a B. Sc. in Chemistry & Geology, a Diploma in Petrochemicals applied studies, M. Sc. in Physical Chemistry and PhD in Physical Chemistry. Has about 14 years experience working as Chemist.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 25/07/1985
Gender : Male
Marital Status : Married
Residence : Damanhour

EDUCATION

: B. Sc. in Chemistry & Geology, Alexandria University, 2007
: Diploma in Petrochemicals applied studies, Alexandria University, 2010
: M. Sc. in Physical Chemistry, Menoufia University, 2019
: PhD in Physical Chemistry, Menoufia University, 2022

LANGUAGES

Arabic : Native Language
English : Very Good

COMPUTER SKILLS

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

TRAINING COURSES AND CERTIFICATIONS

: Water Desalination in power plants, Abu Qir Training Center (2016).
: Oils and its Chemical Properties, Abu Qir Training Center (2017).
: DCS, ABB Company, Damanhour Power Station (2017).
: Operation and maintenance of steam stations, Abu Qir Training Center (2022).
: TOEFL ITP, Language Center, Menoufia University (2022).
: Fundamentals of Digital Transformation Certificate, Central Unit of IT Training, Menoufia University (2022).

CHRONOLOGICAL EXPERIENCE RECORD

Dates : From 2014 till 2022
Employer : West Delta Electricity Production Company
Project : Damanhour Steam Power Plant
Job title : Operation Chemist
Job Description :

- Follow up operation, maintenance the pre-treatment system and all chemical injection system, clarification and filtration process and the demineralized plant system for Steam power plants 300MW (3 lines x capacity 50 m3/h) and 3x65MW (3 lines x capacity 25 m3/h) and all regeneration and chemical analysis required for the cation, anion, mixed bed resin vessels.
- Follow up steam water analysis system online analyzers devices (reagent preparation, calibration, simple maintenance).
- Follow up transformer oil, natural gas and fuel oil quality.
- Responsible for operation, maintenance all water treatment processes in field as (potable water plant, pretreatment system, demineralized system, wastewater system, sewage system).
- Follow up all chemical analysis samples required through operation such as (pH, conductivity, silica, sulphates, organic matter, alkalinity tests, Turbidity, residual chlorine, SDI, TDS, TOC, Heavy metals, hardness test.
- Follow up chemical injection system for steam boiler through heaters chemical washing, preservation and in normal operation.
- Follow up all steam water analysis system analyzers devices.
- Follow up sodium hypo chlorite injection system.
- Responsible for achieving the required specifications for analysis of drinking water, demi. Product water and steam-water cycle in the boiler.

Dates : From 2012 till 2014
Employer : West Delta Electricity Production Company
Project : Damanhour Combined Power Plant
Job title : Operation Chemist
Job Description :

- Gas Power Plants 4x25MW, Combined Power Plant 1x58MW: Follow up operation of pretreatment plant (required chemicals injection system, clarification and filtration process) and operation, backwash and regeneration of demineralized treatment plant process (anion, cation, organic trap and mixed bed exchanger).
- Steam Power Plants 300MW (Ansaldo boilers) (2013):
 - Follow the testing steps and Handed over all the water treatment systems, SWAS analyzers devices (silica, conductivity analyzers for demineralized production line of ion exchangers system), polisher treatment system from ABB Company during the update period for the overall unit of 300MW.
 - Follow up all the steps of implementation (potable water treatment plant) from construction until startup, operation and performance tests and handed over steps.

Dates : From 2010 till 2012
Employer : West Delta Electricity Production Company
Project : Abu Qir Steam Power Plant (4x150MW – 1x311MW = 911MW)
Job title : Operation Chemist
Job Description :

- Follow up operation of pre-treatment plant (required chemicals injection system, clarification and filtration process) and operation, backwash and regeneration of demineralized treatment plant process (anion, cation, organic trap and mixed bed exchanger).
- Follow up chemical injection system for steam boiler through heaters chemical washing, preservation and in normal operation.
- Follow up steam water analysis system online analyzers devices.

Dates : From 2009 till 2010
Employer : West Delta Electricity Production Company
Project : Damanhour Power Plant
Job title : Analyst Chemist in Central laboratory
Job Description :

- Performing the required chemical analysis for samples of raw water in all steps of treatment as Clarification, Filtration, Chlorination, Drinking water and Demineralization treatment plants if Ion exchangers plant, Reverse Osmosis, Ultrafiltration plant, Wastewater samples system, Sewage water samples system, Transformer oils analysis, and samples of steam – water cycle in the all boilers in sector.
- Conducting the required experimental laboratory for determine the appropriate injection doses for chemicals that achieve the best results.

Field of experience :

- Good experience in water treatment & preliminary treatment (clarification, purification, flocculation, filtration) & secondary water treatment, water softening, producing deionized water for boiler purposes (for steam).
- Steam water analysis system panel in Electrical power plants (operation, maintenance, Calibrations and reagent preparations for the online Analyzers. Ex. (pH, Conductivity, Silica, Iron, oxygen) and periodic maintenance maintain the boiler water/steam quality within the recommended limits.
- Good experience in all laboratory experiments.
- Ion exchange resin (cation, anion and mixed bed exchangers).
- Feed / boiler water treatment.
- Steam contamination treatment.
- Protection of boilers off load (from corrosion) & wet conservation & dry conservation.
- Chemical cleaning procedure (boiler) & alkaline degreasing & acid cleaning.
- Mechanical cleaning & ball cleaning.
- Regeneration of ion exchanger.
- Waste water treatment.
- Condensate polishing.
- Hydrogen production unit.