**Kamel Mahmoud Kamel Ebrahim**

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**Work Experience**

**April 2019-present: SEIMENS O&M BENI SUEF CCPP 4800MW**

**Position: Senior operation chemist**

* Controls and monitors the operation process from DCS and PLC base.
* Operation of Ultra filtration (UF), Reverse Osmosis (RO) and EDI system.
* Controls 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.
* Operation of the pre-treatment plant for potable, service 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.
* 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, and sewage water plant.
* Operation of the chlorination plant (C.W& Raw water chlorination).
* Follow-up programs to measure the emissions of various stations, Revision additions materials and their impact on emissions from the combustion process.

**Dec. 2017- 31/3/2019: ELSEWEDY POWER SYSTEM PROJECTS (PSP) BENI SUEF CCPP 4800MW**

**Position: Senior Commissioning and operation chemist**

* 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 (UF), Reverse Osmosis (RO) and EDI system.
* Controls and monitors the operation process from DCS and PLC base.
* Controls Chemical Dosing system and quality of water and steam during Startup 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, Recarbonation 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.

**May 2015- Dec. 2017: El-Kurimate power plant (2X650 MW)**

**Position: operation shift chemist**

* A laboratory chemist & operating as shift chemist in field of Operating, controlling and make qualitative, Quantitative, spectrophotometer and Chromatographic Analysis for:

1. Demineralized system forming Demi water (soft Water) without any salts.
2. Waste water treatment system (treatment to waste Water to back to river Nile).

* Pretreatment 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).

**April 2009-May 2015: Cairo Electricity Production Co.**

**Position: operation shift chemist**

* Pre-commissioning, commissioning and startup of water treatment unit (RO system)
* Managing O&M of water processes equipment and facilities to produce Demineralized water with capacity 15 m3/hour.
* Setting of dosing rate of RO plants chemicals´
* Cleaning, Preservation and Regeneration of UF,R.O, Mixed Bed (CIP, CEB & Regeneration)
* Making complete analysis for Water.
* Preparing shift chemical consumption report.
* Feed treated water and chemicals for closed cooling & cooling towers

O&M Wastewater treatment processes (IWWT; Oil-water separator & sewage).

**May 2008 – April 2009 Asfour for Mining and Refractories Co.**

**Position: Quality control chemist**

* I am working 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), Refractories under Load (RUL) and other handing methods. Also chemical analysis by wet analysis.
* I 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)

**Education:**

B.Sc. Faculty of science, chemistry department, Helwan University May 2007 with "Very good" Degree.

**Training:**

* Helwan University Computer Lab – 2007.
* International Computer Driving License (ICDL) - 2007.
* National Cement Company, July 2007
* Institution of Petroleum, August 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.
* UV.VIS adsorption Spectroscopy, with Excellent Grade.

**Computer Skills:**

* Helwan University Computer Lab – 2007.
* International Computer Driving License (ICDL) - 2007

This certificate is under supervision of UNESCO and Ministry of Communication and Information Technology.

* Having very good experience in Microsoft windows, hardware, Microsoft office (word / Excel / Access / PowerPoint), and internet.
* INTERNAL AUDIT COURSE FOR QMC - ISO 9001/2008

(From 18-21 April 2010) attended and participated in CQM course entitled.

**Language Skills:** Fluent in **Arabic**, very good in **English**.

**Personal information:**

* Marital status :married
* Nationality: Egyptian
* Date of Birth:10/04/1986
* Military state: Exemption