

Holds a B. Sc. in Chemistry Science and has over 13 years experience, including 12 years working as Chemist at Power Plants.

## **PERSONAL DATA**

Nationality : Egyptian  
Birth Date : 01/07/1980  
Gender : Male  
Marital Status : Married  
Residence : Currently KSA

## **EDUCATION**

: B. Sc. in Chemistry, Alexandria University, 2002

## **LANGUAGES**

Arabic : Native Language  
English : Good

## **COMPUTER SKILLS**

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

## **TRAINING COURSES AND CERTIFICATIONS**

- : Training for 4 weeks in Italy (STF SPA Company in Magenta City).
- : STF SPA off-shore & on-shore maintenance training course for a 750MW Nubaria project III for two units of HRSG, contract 1009-CP-105 (4 weeks).
- : On-shore training course in Abu Qir Training Center for two weeks in Water Treatment.
- : Training course for 1 month in Damanhour Training Center.
- : Training course on-shore in Nubaria Power Plant for two weeks by Metito Company in the following plants:
  - Demineralization plant.
  - Pre-treatment plant.
  - Sewage treatment plant.
  - Potable water system.
  - Waste water treatment system.
  - Chemical injection system.
  - Steam water analysis system.
- : On-shore training course for the Water Analysis for 2 weeks in Central Chemical Lab. in Cairo.

- : On-shore training course for the Metal Corrosion in Central Chemical Lab. in Cairo.
- : Training in the laboratory instrument as atomic, GC, Ion Chromatography.
- : Training course for 2 weeks in Helwan Network Training Center in Analysis of dissolved gases in transformers oil.

## CHRONOLOGICAL EXPERIENCE RECORD

**Dates** : From Feb. 2014 till now  
**Employer** : SEC Company (Saudi Electricity Company)  
**Project** : PP10 (Water lab, Fuel laboratories), KSA  
**Job title** : Laboratory Chemist  
**Job Description** : Operator for the following:

- Iron removal system.
- DEMI water system (RO).
- Drinking water system (RO).

**Dates** : From Jun. 2010 till Feb. 2014  
**Employer** : Middle Delta for Electricity Production Company  
**Project** : Nubaria Power Station I & II 2x750MW CC:

- Gas turbine SIEMENS 4x250MW V94.3A
- Steam Turbine MITSUBSHI 2x250MW TC2F
- 2 HRSG ALSTOM
- Water treatment plant (METITIO) Potable, demi, waste... treatment
- Cooling water underground pipes 2500 mm N.D (ORASCOM)
- Fire pipes network ductile Iron 12 bar (Hasan Allam Sons & CCC)
- Critical pipes high, intermediate and Low pressure steam pipes (Boccard USA)
- Cooling water intake equipment (sluice gates, traveling band screens) (ORASCOM)
- Yard Tanks (2 solar fuel tanks each of 20,000 m3 storage capacity (Port Said Com.)
- Fire protecting piping of fuel tanks (foam system, cooling system) high voltage transformers (deluge system) powers block, cable room and colony
- Life line wash system of switch yard (500 & 220KV) (TYCO)
- Hydrogen and oxygen gas plant
- Diesel generator

**Job title** : Laboratory Chemist  
**Job Description** :

- Gas Chromatography (Clarus 500 Perkin Elmer) Instrument which analyzing the Natural Gas and get the Calorific Value.
- Ion Chromatography (ICS1000 Dionex) Instrument, which make qualitative and quantitative analysis for some Anion and Cation of Water Samples.
- Atomic Absorption Spectrometer (Analyst 600 Perkin Elmer) Instrument which determine each element in the sample.
- Total Organic Carbon (Formacs Low Temp) Instrument which determines TOC in the Water Sample.
- Flame photometer (Jenway) instrument which analyzing some cations

as Na, K, Ca, Li, Ba.

- Spectrophotometer 6400 Jenway Instrumente which measure absorbance, concentration, transmission at different Wave Lengths.
- PH, Conductivity, Turbidimeter and Dissolved Oxygen Instruments.
- Emission Analyzer (Land) which analyzing emission gases in HRSG's & Stacks.
- Working in continuous monitoring units (Air Quality Detection) SO<sub>2</sub>, NO<sub>x</sub>, CO, CO<sub>2</sub>, Pm-10.
- Good background in all activities related to commissioning & start-up of Combined Power Plant (3x750MW).
- Background in Chemical Cleaning, Steam Blow Out and Operation for four Alstom H.R.S.G.
- Analyzing samples of Natural gas which used as fuel in combined cycle.
- Good background in Analyzing Transformers Oil.
- Working in continuous emission monitoring system in Nubaria Power Plant which measures the conc. of SO<sub>x</sub> and NO<sub>x</sub> in ppm.
- Working in units, which measures the Conc of NO<sub>x</sub> and Sox.

<b>Dates</b>	:	From Jun. 2007 till Jun. 2010
<b>Employer</b>	:	Middle Delta for Electricity Production Company
<b>Project</b>	:	Nubaria Power Station III 750MW Combined Cycle Project: <ul style="list-style-type: none"><li>• Gas turbine GE 2x250MW</li><li>• Steam Turbine ALSTOM 1x250MW</li><li>• 2 HRSG STF SPA</li><li>• Pumps of different types commissioning and maintenance (TMP)</li><li>• Cooling water underground pipes 2500 mm N.D. (Hassan Allam Sons &amp; CCC)</li><li>• Fire pipes network ductile Iron 12 bar (Hassan Allam Sons &amp; CCC)</li><li>• Critical pipes high, intermediate and Low pressure steam pipes</li><li>• Cooling water intake equipment (sluice gates, traveling band screens), Hassan Allam Sons &amp; CCC)</li><li>• Fire protecting piping of fuel tanks (foam system, cooling system) high voltage transformers</li><li>• Life line wash system of switchyard (500KV)</li><li>• Diesel generator</li></ul>
<b>Job title</b>	:	Construction Supervisor Chemical Engineer for HRSG's construction works and its related contracts
<b>Job Description</b>	:	<ul style="list-style-type: none"><li>• Responsible for supervision chemical &amp; environmental engineering for the contracts as following:<ul style="list-style-type: none"><li>- Contract No. 10049-CP-105 (Heat Recovery Steam Generator):<ul style="list-style-type: none"><li>▪ Steam and water analysis system.</li><li>▪ Continuous Emission Monitoring System (CEMS), environmental.</li><li>▪ Flushing and Cleaning.</li><li>▪ Portable multi gas detector.</li></ul></li><li>- Contract No.10049-CP-101 (Combustion Turbine Generators):<ul style="list-style-type: none"><li>▪ Performance Fuel Gas &amp; Liquid Fuel Analysis.</li><li>▪ Fuel Gas Chromatographs Instruments (on Line &amp; Bench).</li></ul></li><li>- Contract No. 10049-CP-118 (Mechanical Equipments):<ul style="list-style-type: none"><li>▪ Waste Water treatment system.</li></ul></li></ul></li></ul>

- Fuel oil treatment system.
- Condensate, Feed Water & Circulating Water Chemical Injection system.
- Laboratory Instruments.
- Purchase Order No. 10049-PO-113 (Power Transformers):
  - Transformer oil gas Chromatography analyzer.
- Duties:
  - Responsible for supervising specifications, chemical construction and start-up activities for material site receiving related to chemical, environmental works to complete construction, start-up activities.
  - Project Environmental, Chemical Supervisor Engineer:
    - Supervise the contract package schedule and related financial, technical specifications.
    - Follow up the project daily works (receive submittals, replay and equipment construction).

**Dates** : From Apr. 2005 till May 2007

**Employer** : Middle Delta for Electricity Production Company

**Project** : Nubaria Power Station I & II 2x750MW CC

**Job title** : Laboratory Chemist

**Job Description** :

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- Spectrophotometer 6400 Jenway Instrumente which measure absorbance, concentration, transmission at different Wave Lengths.
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- Working in continuous monitoring units (Air Quality Detection) SO<sub>2</sub>, NO<sub>x</sub>, CO, CO<sub>2</sub>, Pm-10.
- Good background in all activities related to commissioning & start-up of Combined Power Plant (3x750MW).
- Background in Chemical Cleaning, Steam Blow Out and Operation for four Alstom H.R.S.G.
- Analyzing samples of Natural gas which used as fuel in combined cycle.
- Good background in Analyzing Transformers Oil.
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- Working in units, which measures the Conc of NO<sub>x</sub> and Sox.

**Dates** : From Jun. 2004 till Mar. 2005  
**Employer** : West Delta for Electricity Production Company  
**Projects** :
 

- Nubaria Power Station
- Damanhour Power Plant

**Job title** : Operator Chemist  
**Job Description** :
 

- Operator for the following systems:
  - Demineralization Plant.
  - Pre-Treatment Plant.
  - Sewage Treatment Plant.
  - Potable Water System.
  - Waste Water Treatment System.
  - Chemical Injection System.
  - Steam Water Analysis System.
- Analyzing all samples in Chemical Treatment (Ion Exchanger to remove all Hardness Salts from Filtered Water to produce Demi Water to use in Thermal Cycle).
- Analyzing all samples in Steam Cycle for all units (in Feed Water / Condensate Water / in Boiler / Saturated Steam / Super Heated Steam / Hot Reheat).
- Analyzing all samples in Potable Water in Station.
- Analyzing all samples in Waste Treatment.
- Analyzing all samples in Sewage Treatment.
- Produce H2 Gas and O2 Gas from Electrolyte Cell (H2 which used for Cooling Generator).
- Working in Continuous Emission Monitoring System in Nubaria Power Plant which measures the Conc. of Sox and NOx in PPM.
- Working in units, which measure the Conc. of NOx and Sox.

**Dates** : From May 2003 till Feb. 2004  
**Employer** : Hydilina for Advanced Medical Industries  
**Job title** : Incoming & Packaging Material Specialist  
**Job Description** : Testing and analyzing all the incoming material which used in factory according to ASTM.