

Holds a B. Sc. in Chemistry and has about 13 years hands-on experience working as Chemist at Power Plants.

## **PERSONAL DATA**

Nationality : Egyptian  
Birth Date : 03/12/1980  
Gender : Male  
Marital Status : Married  
Residence : Beni Suef

## **EDUCATION**

: B. Sc. in Chemistry, El-Minia University, 2003

## **LANGUAGES**

Arabic : Native Language  
English : Very Good

## **COMPUTER SKILLS**

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

## **TRAINING COURSES AND CERTIFICATIONS**

- : Microsoft Office package (Word, Excel, Power Point, Internet) course by Compustar Information Systems Centre.
- : Training in the study period at Lafarge Multinational Company (Beni Suef Cement Plant / Egypt).
- : Training by Siemens Company for (oil laboratory, water laboratory, water treatment plant (ion exchange unit), electrochlorination sodium hypochloride production plant & cooling water system) in Kuwait.
- : Safety course by Egyptian Institute for Safety, health and environment (Safety hazards, fire fighting, Safety goals and instructions).
- : Training by Spectronic Company for spectroil device.
- : Training by El-Fayoum Sugar Manufacture Company for iso quality control system.
- : HAK Automation training for silica analyzer 9610 system operation, maintenance and calibration.

# CHRONOLOGICAL EXPERIENCE RECORD

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| <b>Dates</b>           | : | From 2015 till now                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Project</b>         | : | Port Said East Thermal Power Plant                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Job title</b>       | : | Shift Chemist                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Job Description</b> | : | <ul style="list-style-type: none"><li>• Responsible for water, steam quality of boilers cycles and water quality of ion exchange, distillation water treatment units.</li><li>• Operation and observation for ion exchange and electrochlorination units.</li><li>• Observation for operation of MED distillation units.</li><li>• Following up the start-up procedures of the units and take samples until the unit become in normal and safe operation mode.</li><li>• Do some lab tests for water samples which come from boilers, distillation, ion exchange units. Check (Conductivity, pH, TDS) also spectrophotometer check for silica, chloride, Phosphate, iron, copper, turbidity, hydrazine, ammonia.</li><li>• Downstream sea water analysis (TSS, COD, pH, turbidity, residual chlorine, temperature, Conductivity, oil &amp; grease, ammonia and others / External lab).</li><li>• Neutralization system discharge observation.</li><li>• Follow up with the operation team emissions gases readings.</li><li>• Cooperation with Safety Engineer to arrange laboratory hazard waste and hand delivered to the special contractor.</li><li>• Check sampling room reading, also sampling room resin filters.</li><li>• Cooling water system Chemical injection observation.</li><li>• Regeneration process for ion exchange unit resin filters (mixed bed).</li><li>• Observation for Chemical cleaning for electrochlorination and distillation units.</li><li>• Observation for CBD (continuous blow down) open &amp; close and Chemical injection for some Chemicals as Oxygen Scavenger (hydrazine), ammonia, phosphate, Dechlorination, antiscalant also Chemicals tanks levels check.</li><li>• Prepare laboratory reagents, Chemicals and calibration for instruments as required.</li><li>• Check Chemicals stock and inventory update and managing the Chemical laboratory.</li><li>• Keep attached material safety data sheets for the Chemicals used on the plant.</li><li>• Report any defects or abnormal to maintenance sections.</li><li>• Recording results, readings and processing reports to the department head.</li><li>• Very good user for SCADA, PLC operating systems.</li><li>• Very good dealing with mechanical equipments like pumps, valves, air blower, and air compressor.</li><li>• I have good experience for oil laboratory.</li><li>• Follow PTW instructions.</li><li>• I have very good experience about HSE instructions.</li><li>• Also I have good experience for microbiological analysis (E.Coli, T.Coli).</li></ul> |

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| <b>Dates</b>           | : From Mar. 2010 till 2015                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Employer</b>        | : Kharafi National Company in Kuwait                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Project</b>         | : Al-Zour South Power & Water Production Station                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Job title</b>       | : Shift Chemist                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Job Description</b> | : <ul style="list-style-type: none"> <li>• Following up the chemical cleaning for boiler, commissioning and unit cold start-up.</li> <li>• Responsible for water, steam quality of boilers cycles and water quality of ion exchange, distillation, and reverse osmosis water treatment units.</li> <li>• Operation and observation for ion exchange &amp; electrochlorination units.</li> <li>• Observation for operation of MSF distillation, recarbonation and reverse osmosis units.</li> <li>• Follow up the start-up procedures of the units and take samples until the unit become in normal and safe operation mode, after shutdown units preservation follow up and take samples to check preservation quality.</li> <li>• Do some lab tests for water samples which come from boilers, distillation, reverse osmosis, ion exchange units. Check (Conductivity, pH, TDS) also spectrophotometer check for silica, chloride, calcium, sulphates, phosphate, iron, copper, turbidity, hydrazine, ammonia.</li> <li>• Check alkalinity, total hardness, calcium hardness, residual chlorine.</li> <li>• Downstream sea water analysis (TSS, COD, pH, turbidity, temperature, Conductivity, residual chlorine, oil &amp; grease, ammonia and BOD, heavy metals / External lab).</li> <li>• Observation with the operation team emissions gases limits and Fuel additives injection.</li> <li>• Observation for oil water separator system, and neutralization system discharge.</li> <li>• Some Chemicals concentration check and ash analysis (acidity, pH, unburning carbon).</li> <li>• Check sampling room reading, also sampling room resin filters.</li> <li>• Cooling water system observation (antiscalant, sodium hypochlorite) injection.</li> <li>• Observation for chiller plant chemicals injection (Corrosion inhibitors, antiscalant and biocides).</li> <li>• Regeneration process for ion exchange unit resin filters (cation, anion, mixed bed) do also back wash for activated carbon filters.</li> <li>• Observation for Chemical cleaning for electrochlorination plant and distillation units.</li> <li>• Observation for CBD (continuous blow down) open &amp; close and Chemical injection for some Chemicals as Oxygen Scavenger (hydrazine), ammonia, phosphate, Dechlorination, antiscalant, Coagulant also Chemicals tanks levels check.</li> <li>• Check Chemicals stock and inventory update and managing the Chemical laboratory.</li> <li>• Keep attached material safety data sheets for the Chemicals used on the plant.</li> <li>• Prepare laboratory reagents, Chemicals and calibration for instruments as required.</li> <li>• Report any defects or abnormal to maintenance sections.</li> <li>• Recording results, readings and processing reports to the department head.</li> </ul> |

**Dates** : From Jan. 2009 till Feb. 2010

**Employer** : El-Fayoum Sugar Manufacture Company

**Job title** : Chemical Engineer / Chemist in Utilities Department

**Job Description** :

- Responsible for the water quality for water treatment plants.
- Make observation process for water treatment plants such as water treatment plant (for drinking & industrial purposes) and ion exchange water treatment plant for boilers section (Power Plant) also sampling room reading and resin check.
- Chemical injection observation for boilers side, blow down and Chemicals tanks level.
- Chemical injection observation for Cooling towers system.
- Observation with the operators the waste water treatment plant (SBR).
- Observation the (back wash & rinsing) for sand, carbon filters and clarifiers cleaning from sediments.
- Observation the regeneration process & rinsing for ion exchange Plant.
- Observation for Chlorine, Coagulation injection systems.
- Check TDS, pH, turbidity, total hardness, calcium hardness, total alkalinity, chloride, residual chlorine, silica, iron, ammonia, fluoride, calcium, magnesium, sulphates, color, TSS, COD.
- Check Chemicals stock and inventory update and keep MSDS on plant Chemicals.
- Prepare laboratory reagents, Chemicals and calibration for instruments as required.
- Recording results, readings and processing reports to the department head.
- Report any defects or abnormal to maintenance sections.

**Dates** : From 2006 till 2008

**Employer** : Aldoraq Water Bottling Plant – Saudi Arabia

**Job title** : Process, Lab Engineer and QC Supervisor

**Job Description** :

- Responsible for the water treatment plant (Reverse Osmosis Plant) operate the plant and during operation check many samples of water for water quality control.
- Back wash, rinsing for sand and carbon filters & do flushing for RO membranes.
- Check Chemical injection for antiscalant, sodium hydroxide, sodium fluoride, sulphuric acid.
- Make daily analysis for the product water using spectrophotometer device to check (nitrite, nitrate, sulphates, iron, calcium, magnesium, ammonia, fluoride, silica also total hardness, calcium hardness, total alkalinity, chloride by titration).
- Check residual chlorine, turbidity, color for product water, SDI for raw water.
- Prepare laboratory reagents, Chemicals and calibration for instruments as required.
- Check raw materials coming to the Plant and observation for Chemicals stock.
- Keep attached material safety data sheets for the Chemicals used on the plant.
- Quality control check for the (date for product bottles, ozone gas, cap sealing, cap appearance, pH, TDS, stickers on bottles).

- Report any defects or abnormal to maintenance sections.
- Recording results, readings and processing reports to the department head.

**Dates** : From 2004 till 2006  
**Employer** : Chemia Consult for Water Treatment Technology  
**Job title** : Chemical Engineer  
**Job Description** : 
 

- Make quality control on reverse osmosis devices check pump used, filters and membranes.
- Make collection process for the parts of the reverse osmosis devices.
- Water samples quality check using water laboratory.