

Holds a B. Sc. in Special Chemistry, a post graduate diploma and Master degree. Has about 13 years hands-on experience working as Chemist at Power Stations.

## PERSONAL DATA

Nationality : Egyptian  
Birth Date : 01/10/1983  
Gender : Male  
Marital Status : Married  
Residence : El-Behira

## EDUCATION

- : B. Sc. in Special Chemistry, Menoufia University, 2004
- : Post graduate Diploma, 2009
- : Premaster Courses in Inorganic Chemistry, Menoufia University
- : 1 year training and studying at Biomedical Chemistry Department – National University of Ireland, Galway (NUIG) for Master degree
- : Master degree in Inorganic Chemistry, Menoufia University, 2019

## LANGUAGES

Arabic : Native Language  
English : Very Good

## COMPUTER SKILLS

- : Windows, MS Office (Word, Excel, Power Point), Internet
- : Origin, Sigma plot, Chemdraw, Isisdraw, Chemoffice, etc.

## TRAINING COURSES AND CERTIFICATIONS

- : Training for one week in Middle Delta Electricity Production Company, Nubaria Power Station Combined Cycle about water treatment in power plants.
- : Training for one week in Nubaria Power Station Combined Cycle - Egypt about R.O, raw water treatment, Demineralization, chemical cleaning in power plants.
- : Training course for one week about chemical cleaning and boilers feed water treatment in Central Laboratories of Electricity.
- : Firefighting training for one week in 2010 and one week in 2017.

- : Research project titled "Radiation Processing of Some Natural Polymers and its Applications in Water Treatment" under supervision Menoufia University and (National Centre for Radiation, Research and Technology, Egypt) for six months.
- : English Course for Non-Specialists (36 hrs.) (Oct. 2011).

## CHRONOLOGICAL EXPERIENCE RECORD

**Dates** : From Dec. 2017 till now  
**Employer** : [EGYPTROL](http://www.egyptrol.com) / AC BOILERS  
**Project** : South Helwan Supercritical Power Plant 3x650MW  
**Job title** : Commissioning & Start-up Chemist  
**Job Description** : Carry out all pre-commissioning activities for:

- Chemical cleaning.
- Water treatment for chemical cleaning Pool.
- Boiler clean up, Refractories dry out, Steam blowing, Bypass operation, Normal operation.
- Commissioning & Start-up and operation of SWAS system & CEMS system.
- Boiler preservation.
- Commissioning & Start-up of the boiler (Auxiliary Boiler & Main Boilers).

**Dates** : From Oct. 2006 till 2017  
**Employer** : Egyptian Electricity Holding Co., Middle Delta Electricity Production Co.  
**Project** : Nubaria Power Station Combined Cycle (3x750MW = 2250MW), Siemens gas turbine, GE gas turbine, Mitsubishi steam turbine  
**Job title** : Chemist  
**Job Description** :

- Operating of water pre-treatment system, waste water treatment system, sewage treatment system and potable system.
- Demineralization system by using Ion Exchange process.
- Controlling and operating these systems through SCADA (supervisory control and data acquisition) systems.
- Boilers feed water treatment (Water and Steam cycles).
- Make analysis for all samples in pre treatment (screening, edimentation and filtration) to produce filtered water (used in drinkable water and in chemical treatment (ion exchanger)).
- Make analysis for all samples in steam cycle for all units (feed, condensate water, saturated, superheated steam, hot reheat).
- Make analysis for all samples in (drinkable water in station, waste, sewage treatment).
- Treatment of water by reverse osmosis system.

**Dates** : In 2005 (for 6 months)  
**Employer** : Sanosil Egypt Co.  
**Job title** : Chemist

**Further experiences** : One year as Chemistry Teacher and Arabic Teacher for non-native speakers in El Hikma Islamic School (Galway – Ireland).

- Field of experience :**
- 13 years of experience as Operation and Commissioning Chemist in combined & supercritical power plants, Shift Team Leader in project operation.
  - Expert in the chemical cleaning and clean up of boilers (Combined & Supercritical), boiler feed water treatment and follow the water quality (Specification) from commissioning phase to start-up until normal operation.
  - Expert in commissioning & start-up of steam and water analyzers system (SWAS).
  - Expert in commissioning & start-up of continuous emissions monitoring system (CEMS).
  - Expert in the chemical analysis and operation of water treatment, reverse osmosis, ion exchange.
  - Administrative Responsibilities:
    - Leading, coordination, and supervision of operation teams during project from commissioning phase to start-up until normal operation.
    - Team development and provide technical training to team members.

Publication:

Publishing paper in international journal from master thesis entitled: D. A. Tolan, Y. K. Abdel-Monem, M. A. El-Nagar, Antitumor Platinum (IV) complexes Bearing the Anti-Inflammatory Drug Naproxen in Axial Position, Appl OrganometalChem. 2019;e4763. <https://doi.org/10.1002/aoc.4763>.