

Holds a B. Sc. in Chemistry and has about 37 years of solid experience in Power Plant Chemistry & the Operations of varieties of Water Treatment Systems. Involved in specification, design review, commissioning, and start-up of variety of water treatment systems, steam generators and set-up thermal power plant's chemistry management and strategies. Has experience in high pressure boiler's pre- and post-operational chemical cleaning.

## **PERSONAL DATA**

Nationality : Egyptian  
Birth Date : 22/02/1959  
Gender : Male  
Marital Status : Married  
Residence : Cairo

## **EDUCATION**

: B. Sc. in Chemistry, Ain Shams University, 1980

## **LANGUAGES**

Arabic : Native Language  
English : Fluent

## **COMPUTER SKILLS**

: Windows, MS Office, Internet

## **TRAINING COURSES AND CERTIFICATIONS**

- : Basic and Site Specific Training on Thermal Power Plant Equipment, Systems and Application, conducted by Overseas Bechtel INC. (OBI), Cairo, Egypt.
- : On-site Training on commissioning and start-up of Water Treatment Systems, by Infilco Degremont Inc. (IDI) for Shoubra El-Kheima Thermal Power Plant, Cairo, Egypt.
- : On-site Training on Boiler Alkaline Boiling Out and Acid Cleaning, conducted by Ansaldo Componenti spa., Cairo, Egypt.
- : Planning and Budgeting, conducted by Technology Transfer Institute (TTI - Canada), at Saudi Arabia.
- : Project Management and Cost Engineering, conducted by the American Association of Cost Engineers (AACE) Arabian Gulf Section, Saudi Arabia.
- : First Line Supervisory, conducted by SCECO Management Training Center, Saudi Arabia.

- : SAFETY - The Management Function, conducted by the International Center for Management Development (ICMD), Saudi Arabia.
- : Time Management, conducted by SCECO Management Training Center, Saudi Arabia.
- : Managing Employee Performance, conducted by SCECO Management Training Center, Saudi Arabia.
- : Technical Report Writing, conducted by Franklin Quest Consulting Group, USA, at Saudi Arabia.
- : Company Policies and Procedures, conducted by SCECO Management Training Center, Saudi Arabia.
- : Industrial Corrosion Control, conducted by the International Center for Management Development (ICMD), Saudi Arabia.
- : Strategic Planning and Budgeting Seminar, conducted by SCECO Corporate Planning Department, Saudi Arabia.
- : Creative Thinking, conducted by SCECO Management Training Center.
- : Neuro Linguistics Programming (NLP), conducted by O. A. Al-Kheriji Training & Consultants Office (Kuwait), for SCECO Management Training Center, at Saudi Arabia.
- : Managing Interpersonal Relations (MIR), conducted by SCECO Management Training Center, Saudi Arabia.
- : Decision Making & Problem Solving, conducted by SCECO Management Training Center, Saudi Arabia.
- : Tahseen Primary (Team Leaders & Members), conducted by SEC-EOA Management Training Center, Saudi Arabia.
- : Advanced Facilitation, conducted by SEC-EOA Strategic Development Department and Management Training Center, Saudi Arabia.
- : OHSAS 18001 Foundation Training, conducted by SGS Inspection Services Saudi Arabia Ltd. for Marafiq.
- : Hazards Identification & Risk Assessment (HIRA), conducted by Marafiq ISD / Loss Prevention Department.
- : The Manufacturer Games (TMG), conducted by Strategic Asset Management Inc. (SAMICORP), USA for Marafiq KSA.
- : Marafiq Core Value Facilitator (Noor Program), conducted by Ernst & Young Consulting, for Marafiq KSA.
- : Basic Negotiation Skills, conducted by GABEL Consultants, for Marafiq KSA.
- : Safety Leadership Workshop, conducted by Jomc Ltd. and British Safety Council, for Marafiq KSA.
- : Multi Effect Distillation (MED), conducted by ILF Consulting Engineers by Dr. Corrado Sommariva, for Marafiq/SETE KSA.
- : Multi Effect Distillation (MED), conducted by Leading Edge Technologies (LET) by Mr. Leon Awerbuch, for Marafiq KSA.
- : Multi Effect Distillation (MED), conducted by Doosan Heavy Industries and BWA Water Additives, for Marafiq KSA.

## CHRONOLOGICAL EXPERIENCE RECORD

<b>Dates</b>	: From Dec. 2018 till now
<b>Job title</b>	: Independent Consultant Power & Water Utilities
<b>Job Description</b>	: Consultancy Service.

**Dates** : From May 2005 till May 2018  
**Employer** : Marafiq - Power and Water Utility Co.  
**Projects** : Jubail & Yanbu - KSA  
**Job title** : Laboratory Superintendent  
 (4x127 – 138.5MW & 5x250MW steam turbines – 9x60MW Gas Turbine – 6x380 m<sup>3</sup>/hr. & 3x570 m<sup>3</sup>/hr. MSF - 6x350 m<sup>3</sup>/hr. RO – 2x1,150 m<sup>3</sup>/hr. MED, 48,000 m<sup>3</sup>/hr. IWTP & 2,240 m<sup>3</sup>/hr. SWTP)  
**Job Description** :
 

- Plan, develop and execute Marafiq–Yanbu Central Laboratory Project with four specialized testing laboratories (Oil & Fuel, Water, Wastewater and Microbiological).
- Plan, develop and execute Marafiq–Yanbu Satellite Laboratory for Marafiq Yanbu – II Power & Water utility.
- Review the Steam generator’s (Water/Steam Cycle Treatment) and modify for optimum performance and cost reduction.
- Comply with Local and International Environmental Regulations, Codes and Guidelines in testing, reporting and maintaining water, wastewater, and gases emission levels.
- Develop for Marafiq, a well-recognized, Electrical Insulating Oils testing laboratory capable of oil testing in accordance to ASTM, IEC & IEEE. Lab developed testing programs are recognized by Doble Engineering Company USA, Lab director during audit.
- Develop SOW and lead the execution of (Boiler Integrity and Life Assessment) for 127MW boilers with the boilers’ OEM (MHI).
- Assess demineralization plant and condensate polishers’ performance and demonstrate improvements with new operating regime.
- Assess existing Sodium Hypochlorite Plant performance and develop specification and conceptual design for new Seawater Electrolytic Modules Generating 900 kg Cl<sub>2</sub>/hr.
- Assess HRSG Water Conditioning Performance.
- Develop several operations and maintenance instructions for Steam Power Plant Water Treatment and Lubrication Oils.
- Review overall processes integrity and looking for area of improvement and cost saving.
- Administrate organization’s setup of 27 professional in several categories in addition to supportive vendors and contractors.

**Dates** : From Mar. 1988 till May 2005  
**Employer** : Saudi Electricity Co.  
**Project** : Qurrayah Power Plant, Dammam - KSA  
 (4x625MW Steam) – MSF 3x4000 m<sup>3</sup>/hr. DI 3x85 m<sup>3</sup>/hr., 3x80 m<sup>3</sup>/hr. potable water  
**Job titles** :
 

- Plant Engineer II
- Desal & Lab Supervisor
- Plant Chemist
- Desal Shift Supervisor

**Job Description** :
 

- Oversaw the Water Treatment Systems Operations and develop Operational Standard Procedures.
- Conducted water treatment systems efficiency and performance measurements.
- Developed and monitor Plant Environmental Protection Program and

- prepare plant reports.
- Replaced existing Sodium Hypochlorite generation plant with new one, capacity 1,256 kg Cl<sub>2</sub>/hour. Handled the project from conceptual design, writing scope of work, and up to execution phase.
- Contribute in reviewing Ghazlan Power Plant II Project design and commissioning packages.
- Performed chemical cleaning for high pressure boilers, electro-chlorination modules, desalination plant and heat exchangers.
- Established and implemented plant Corrosion Control Program (since 1999).
- Prepared necessary Engineering Instruction packages for system's modifications and present it for management review and approval.
- Oversaw Fire Protection Systems testing, inspection, design review, modification and risk assessment and supervises on-site fire contractor's activities.
- Oversaw department safety procedures and strategies and prepares necessary statistical reports.
- Prepared contracts' technical scope of work for water treatment systems, boilers chemical cleaning, corrosion control program, etc.
- Reviewed operational incident reports and record for water treatment systems.
- Reviewed water and oil quality reports and provide necessary guidelines to Laboratory and Plant Operations.
- Reviewed and improve Preventive Maintenance Program and equipment overhauling frequency.

<b>Dates</b>	:	From 1982 till 1988
<b>Employer</b>	:	Egyptian Electricity Authority (EEA)
<b>Project</b>	:	Shoubra El-Kheima Power Plant (4x350MW Steam Plant)
<b>Job title</b>	:	Sr. Shift Chemist
<b>Job Description</b>	:	<ul style="list-style-type: none"> <li>• Responsible for commissioning, start-up and operation of the water treatment plants such as demineralizers, condensate polishers, waste water treatment, raw water pre-treatment, potable water, and liquid chlorine dosing units and activated sludge sewage plant.</li> <li>• Performed the pre-operational boiling out and acid cleaning for the natural circulation boilers.</li> <li>• Maintained the quality of the water and oil for the main generation units and the auxiliaries.</li> <li>• Issued field reports for interruption of the operating equipment and proposed the necessary modifications to achieve the maximum efficiency.</li> <li>• Instructed and trained employees and trainees in plant duties.</li> </ul>