

Holds B. Sc. and M. Sc. in Mechanical Engineering and has more than 7 years hands-on experience working in operation and start-up at Abu Qir Thermal Power Station.

## **PERSONAL DATA**

Nationality : Egyptian  
Birth Date : 25/05/1988  
Gender : Male  
Marital Status : Married  
Residence : El-Behira

## **EDUCATION**

: B. Sc. in Mechanical Engineering, Alexandria University, 2010  
: M. Sc. in Mechanical Engineering, Alexandria University, 2015

## **LANGUAGES**

Arabic : Native Language  
English : Good

## **COMPUTER SKILLS**

: Windows, MS Office (Word, Power Point), Internet  
: Aspen HYSYS  
: Matlab  
: AutoCAD

## **TRAINING COURSES AND CERTIFICATIONS**

: Distributed control system (WDEPC).  
: Common faults of steam units (WDEPC).  
: Electrical protection systems (WDEPC).  
: Protection of generators (WDEPC).  
: Introduction in boiler maintenance and its auxiliaries (WDEPC).  
: Commissioning and performance tests of combined cycle units (WDEPC).  
: Vibrations and balancing of rotating machinery (WDEPC).  
: Training at Abu Qir Power Station (2008): Components of the power station and how it work.  
: Training at Abu Qir Fertilizers (2009): Types of valves and pumps.  
: ICDL

# CHRONOLOGICAL EXPERIENCE RECORD

- Dates** : From May 2011 till now
- Employer** : West Delta Electricity Production Company
- Project** : Abu Qir Thermal Power Station (4x150MW + 1x320MW)
- Job title** : Operating Engineer in Steam Power Station 150MW Alstom manufacturing
- Job Description** :
- Start-up "cold, warm and hot", Normal Shutdown, Emergency Shutdown, Facing Disturbances "Run back and Run down", Switch Yard and good knowing about D.C.S & Mark VI.
  - Write a report about any problem occurred during my shift and showing how we solved it, how to avoid it in the future and introduce it to my chief.
  - Coordinate the start-up, shut-down (normal & emergency) and normal operations with operator and field operators and detect operating defects or faults.
  - Start or stop generators, auxiliary pumping equipment, turbines, and other power plant equipment, and connect or disconnect equipment from circuits.
  - Operate or control power generating equipment, including boilers, turbines, generators using control boards or semi-automatic equipment.
  - Control auxiliary equipment, such as pumps, fans, compressors, condensers, feed water heaters, filters, and coolers to supply water, fuel, lubricants, air, and auxiliary power.
  - Make adjustments or minor repairs, such as tightening leaking gland and pipe joints and report any needs for major repairs.
  - Monitor and inspect power plant equipment and indicators to detect evidence of operating problems.
  - Open and close valves and switches in sequence upon signals from other workers, in order to start or shut down auxiliary systems.
  - Place standby emergency electrical generators on line in emergencies and monitor the temperature, output, and lubrication of the system and tries to find and solve the problem.
  - Responsible for recording, compiling, reporting and documenting operating data, and monitoring process indicators.
  - Regulate equipment operations and conditions such as water levels, based on data from recording and indicating instruments or from computers.
  - Communicate with systems operators to regulate and coordinate transmission loads and frequencies, and line voltages.
  - Responsible for preparation such as day-to-day maintenance work.
  - Present a course to the students of the Faculty of Engineering during summer training.
  - Equipment and Auxiliaries:
    - 150MW steam turbine Auxiliaries: Electrical feed water pumps - Lubricating oil and jacking oil system - Generator seal oil system - closed cooling water system - Condensate pumps and vacuum system - Sea water cooling system - Low and High pressure heaters.
    - 475 T/H 180 Kg/Cm<sup>2</sup> steam generator Auxiliaries: Boiler fuel system - Forced drift fans - Air heaters - Gas recycle fan - Service and control air compressors.

- 175 MVA, 15KV, 50 HZ Synchronous turbo generator.
- 175 MVA, 15/220KV Power transformer.
- 15 MVA, 15/6KV Unit auxiliary transformer.
- 2 x 1 MVA, 6KV/380V Auxiliary transformer.