

**100761-MEC-MO-E-2009**  
**Maintenance & Operation Engineer**

Holds a B. Sc. in Mechanical Power Engineering and has over 1 year experience in Power Plant maintenance, monitoring and operating of gas turbines, HRSG and steam turbines.

## PERSONAL DATA

Nationality : Egyptian  
Birth Date : 15/02/1987  
Marital Status : Single

## EDUCATION

: B. Sc. in Mechanical Power Engineering, Helwan University, 2009

## LANGUAGES

Arabic : Native Language  
English : Very Good  
French : Fair

## COMPUTER SKILLS

: Windows, MS Office (Word, Excel, Access, Power Point), Internet  
: AutoCAD 2D  
: Adobe Photoshop 9  
: Q-Basic program

## TRAINING COURSES AND CERTIFICATIONS

: GENERAL ELECTRIC (GE):

- Gas Turbine - Generator Operation Training "MS6001FA".
- Gas Turbine - Generator Maintenance Training "MS6001FA".
- SpeedTronic "Mark VI" Control System Training.
- Generator Excitation, Static Frequency Control and Generator Protection Training.

: SIEMENS:

- Basic Training Steam Turbine SST-900.

: NEM:

- Heat Recovery Steam Generator (HRSG) Heat Exchanger.
- Heat Transfer Fluid (HTF) Heat Exchanger.

: IBERDROLA INGENIERÍA Y CONSTRUCCIÓN, S.A.U.:

- General concept of a combined cycle.
- Power Plant Mechanical systems (18 systems).

- : TORISHIMA PUMP (Japan):
  - Feed Water Pump.
  - Circulating Pump.
  - Condensate Pump.
- : VEOLIA Water System (Spain):
  - Water Treatment System.
- : ESINDUS Cooling Tower (Spain):
  - Operation & Maintenance of Cooling Tower.
- : Chemtrol Proyectos y Sistemas, S.L. (Spain):
  - Fire Protection System.
  - Fire Detection System.
- : Anatrak A&I, S.A.:
  - Continuous emissions monitoring system.
- : WIKA Measurements:
  - Temperature (Mechanical and Electrical).
  - Pressure.
  - Level-Radar.
  - Ultrasonic flow meters.
- : FLAGSOL Solar Thermal Power Plants:
  - Weather Stations, (HTF) Pumps.
- : Summer trainings at:
  - Mansour Chevrolet, 2008 (4 weeks), working in Maintenance Center with dismantling all components of the internal combustion engine, change filters and inspection of breaks and spark plugs.
  - Shoubra El-Kheima Power Plant, 2007 (6 weeks), four modules of steam turbines each one can generate up to 315MW.

## CHRONOLOGICAL EXPERIENCE RECORD

- Dates** : From Jan. 2010 till now
- Employer** : New and Renewable Energy Authority (NREA)
- Project** : El-Kureimat Integrated Solar Combined Cycle Power Plant
- Job Description** :
  - Maintenance & Operation Engineer of the power plant (Gas turbine, HRSG, Steam turbine and BOP) with following activities:
    - Follow construction work.
    - Follow the system flushes, steam blows and hydrostatic and pneumatic testing.
    - Coordinate the operation testing, commissioning and preparing all plant locally.
    - Power plant operator for (cold, warm and hot) start-up, unit's load increasing and decreasing, normal operation and shut down; using Mark VI (GT), PCS7 (ST) and DCS (all other equipments).
  - Participate in the plant commissioning process.
  - Good knowledge about using functional control diagrams and control systems.
- Field of experience** :
  - Monitoring and operating of gas turbines, HRSG and Steam turbines.
  - Power Plant maintenance and operation.