

**101861-ELE-145MPT-E-2004**  
**Electrical Maintenance Section Head**

Holds a B. Sc. in Electrical Power & Machines Engineering and has over 11 years hands-on experience working in maintenance, testing, commissioning and installations.

## PERSONAL DATA

Nationality : Egyptian  
Birth Date : 01/04/1980  
Gender : Male  
Marital Status : Married  
Residence : El-Behira

## EDUCATION

: B. Sc. in Electrical Power & Machines Engineering, Menoufia University, 2004

## LANGUAGES

Arabic : Native Language  
English : Very Good  
French : Fair

## COMPUTER SKILLS

: Windows, MS Office, Internet  
: Design and drawing using AutoCAD 2004 & 2007  
: Visual Basic

## TRAINING COURSES AND CERTIFICATIONS

: SAP Program to maintenance plan (preventive & corrective & break down).  
: Generators and transformers protection (Apr. 2006).  
: Circuit breakers and transformers maintenance (May 2008).  
: Programmable Logic Controllers (P.L.C. Siemens S7 300) (Jun. 2010).  
: Measurement transformer and feeder protection (Sep. 2010).

## CHRONOLOGICAL EXPERIENCE RECORD

**Dates** : From Jul. 2012 till now  
**Employer** : TAQA Power (Global Energy)  
**Project** : Egyptian Styrenics Production Co. (Petro-chemical), E-Styrenics Power Station (2x4.3MW and 1x3.3MW Natural Gas (DEUTZ), Alexandria

**Job title** : Electrical Maintenance Section Head  
**Job Description** :

- Power transformers 11KV / 400 V.
- Maintain frequency converter.
- 110V dc Battery.
- Load center test & start-up.
- Generator Excitation (AVR).
- Protection of generators.
- Motor control center (MCC) test & start-up.
- Battery charger & UPS.
- Motor test & start-up.
- Start-up and synchronizing units.
- Switch gear 11KV test & start-up.
- Adjustment and configuration of protection Relays (Sepam: (Series 20 & 40 and 80)).

**Dates** : From Apr. 2010 till Jul. 2012  
**Employer** : Kharafi National  
**Project** : International Marsa Alam Airport, Port Galib Power Station (Emak for utilities and service), Diesel Power Station (4x3.4MW "MAN" Diesel Engine) using DCS (ABB) Control System and (2x8MW "Wartsila" Diesel Engine) using PLC (Schneider) Control System, Marsa Alam (Port Galib)

**Job title** : Electrical Maintenance Engineer  
**Job Description** :

- Calibration of Field Instrument (Pressure Transmitter, Pressure Switch & Level Transmitter, Level Switch & Temperature Switch, etc.).
- Loop Check for the DCS and PLC.
- Medium Voltage Switchgear, Bus bar, Distribution Panel 11KV.
- Adjustment of protection Relays (Multifunction Relays REF, REM).
- Adjustment of protection Relays (Multifunction Relays vamp).
- LV Switch Boards & Motor Control and Auxiliary units Panel.
- Control System, Air System, Lube Oil & Heavy Oil Separators.
- Fire Detection System (Smoke Sensor, Heat Sensor, Deluge Valves).

**Dates** : From Mar. 2006 till Mar. 2010  
**Employer** : Egyptian Electric Holding Company (EEHC)  
**Project** : Abu Qir Power Plant 1000MW  
**Job title** : Maintenance Engineer of high voltage equipment  
**Job Description** : Commissioning and start-up:

- Generators:
  - Overhaul of generator (rotor & stator) and change excitation system to static excitation Generator (AVR) 4 units 150MW, with Alstom Power Service Company.
  - Maintenance all types of the excitation system (Brush system, Brushless (rotating diodes) system, static excitation system) (Excitation transformer & cable & excitation panel & software plc & Rewinding the rotor and stator in the synchronous generator).
  - Commissioning and start up for electro chlorination units with SEVERN TRENT DENORA Co. (4 units 3300A, 450V).
- DC voltage:
  - Maintenance the rectifiers and inverters.
  - DC Motor & Induction Motor maintenance and testing.

- Charge & discharge and connect for the Nickel cadmium Battery.
- Maintenance UPS system (20 KVA, 0.8pf).
- Protection:
  - Responsible for all periodic tests such as:
    - Current Transformers such as Burden, saturation curve, Turns Ratio, Winding Resistance and Polarity check.
    - Voltage Transformers such as Insulation, turns Ratio and Polarity check.
    - Circuit breakers of L.V, M.V and H.V such as megger, contact resistance, Opening and closing time.
    - Interlocking for C.B, disconnecting switches and earthing switches.
    - Generator tests such as no load test & short circuit test & open Circuit test and load test.
    - Protection of motors such as over current, over load, unbalance.