

# 104208-ELE-1CMSTyz-S-2001

## Electrical Maintenance Technician

Holds an Diploma of Electrical and maintenance machines and has over 17 years hands-on experience working in construction, maintenance and commissioning at Nubaria Power Station.

### PERSONAL DATA

Nationality : Egyptian  
Birth Date : 22/10/1978  
Gender : Male  
Marital Status : Married

### EDUCATION

: Diploma of Electrical and maintenance machines

### LANGUAGES

Arabic : Native Language  
English : Good

### COMPUTER SKILLS

: Windows, MS Office, Internet

### TRAINING COURSES AND CERTIFICATIONS

: Electrical construction inside building (Feb. 2002).  
: Maintenance of combined cycle generation units.  
: Safety training in power generation stations.  
: Protection and measurement training.

### CHRONOLOGICAL EXPERIENCE RECORD

**Dates** : From May 2001 till now  
**Employer** : Middle Delta Electricity Production Company  
**Project** : Nubaria Power Station I, II, III (3x750MW) Combined Cycle:

- Modules I & II:
  - Four Siemens gas turbine generators 4x250MW
  - Four ALSTOM horizontal boilers HRSG
  - Two Mitsubishi steam turbine generators 2x250MW
  - ABB / CONSIYS Switchyard 500/220KV
  - ZTR main & auxiliary and tie transformer
  - Auxiliary system (pump house – water treatment unit)

- Medium voltage switchgear and low voltage MCC
- DCS control
- Module III:
  - Two GE gas turbines 250MW frame MS9001FA
  - Two horizontal boilers STF HRSG
  - One ALSTOM steam turbine 250MW (HP, IP, LP stages)
  - Auxiliaries (service, closed cooling, circulating systems....etc.)
  - 500KV switchyard
  - Medium and Low Voltage Switchgears

**Job title** : Electrical Maintenance Technician

- Job Description** :
- Attendance construction and commissioning further maintenance of the following:
    - Electrical system of switchyard 500/220KV.
    - Electrical system of medium voltage (6.3KV) Schneider switchgear.
    - Electrical system of low voltage (400 V AC) Schneider MCC.
    - Electrical system of battery – battery charger – diesel engine – DC-UP system.
    - Electrical system of ZTR power transformer (main and auxiliary).
    - Electrical system of Siemens gas turbine (generator – power control center – SFC – SEE – all auxiliary unit) V94.3A.
    - Electrical system of Mitsubishi steam generator turbine.
    - Electrical system of pump house and water treatment unit.
    - Electrical system of elevators.
  - Attendance construction and commissioning of the following (during 2009):
    - Electrical system construction and commissioning of General Electric (GE) units (generator – LCI control & dry transformer – SEE control & dry transformer – all auxiliaries in unit) in module III.
  - Making in all electrical maintenance of the following (from 2010 till now):
    - Gas turbine generator 4x250MW (Siemens units). Worked in minor & major inspection of Siemens units. Attend with Siemens in all electrical tests such as bump test, partial discharge test, high voltage test ac-dc, megger, .....
    - The experience of pulling out gas turbine generator rotor.
    - Steam turbine generator 2x250MW (Mitsubishi units). Worked in minor & major overhaul inspection for Mitsubishi.
    - Operation & maintenance of Transformers such as:
      - Main transformers (16.5 to 500KV) for gas turbine units.
      - Main transformers (15 to 500KV) for steam turbine units.
      - Auxiliary transformers 16.5/6.3/6.3KV for gas turbine units.
      - Excitation transformers (15KV/600V) for steam turbine units.
      - Tie transformer (500KV/220KV/11KV).
      - Exchanging ZTR transformer with new HYSOUNG transformer.
    - Generator circuit breakers ABB.
    - Switchgear (6.3KV).
    - MCC (400V) and load center.
    - Electrical valves in HRSG.
    - Battery – Battery Charger – DC & UPS system.
    - Electrical system of emergency Diesel engine.
    - Electrical system of fire Diesel engine.
    - Water treatment plant.
    - Nubaria Station colony electrical activities (transformers, sump pumps, lighting, ...etc.).

- Hydrogen generation unit (for cooling the generator steam turbine).
- Heat ventilation system HVAC, electrical maintenance.
- All Maintenance activities in switchyard 220KV & 500KV electrical system.
- Overhauls activities:
  - 4 major overhauls for steam turbine units.
  - 8 major overhauls for gas turbine units.
  - 2 simple overhauls for gas turbine units.
  - 2 simple overhauls for steam turbine units.