

**105284-ELE-1MOS-E-2009**  
**Electrical Maintenance Engineer**

Holds a B. Sc. in Electrical Power Engineering (Extra High Voltage) and has over 11 years hands-on experience, including 10 years working in operation, commissioning and maintenance at Damietta Combined Cycle Power Station.

## PERSONAL DATA

Nationality : Egyptian  
Birth Date : 18/11/1985  
Gender : Male  
Marital Status : Married  
Residence : Damietta

## EDUCATION

: B. Sc. in Electrical Power Engineering (Extra High Voltage), South Valley University, 2009

## LANGUAGES

Arabic : Native Language  
English : Very Good

## COMPUTER SKILLS

: Windows, MS Office (Word, Excel, etc.), Internet  
: AutoCAD 2D, ETAB, DIALux

## TRAINING COURSES AND CERTIFICATIONS

: Operating & Monitoring AEG GIS 220KV switchgear Isolated with SF6 gas.  
: Operating & Monitoring 135MW Siemens SGT- (V94.2) operating by Semadin control system, Certified from EDEPC (East Delta Electricity Production Company) (Sep. 2011).  
: Operating & Monitoring plant Auxiliary.  
: Operating & Monitoring Boilers and steam turbine, Certified from EDEPC (Sep. 2013).  
: Training Course in basics of programmable logic control (PLC) from Egyptian Syndicate of Engineers (Jun. 2012).  
: Training Course in Power System Distribution from ILEARN Academy.  
: Operating & Monitoring 135MW Siemens SGT- (V94.2) operating by T3000 control system, Certified from EDEPC (East Delta Electricity Production Company) (Feb. 2016).  
: Summer Training in Damietta Power Station (Jun./Jul. 2005).

- : Summer Training in Damietta Power Station (Jul./Aug. 2006).
- : Summer Training in Damietta Power Station (Jul. 2008).

## CHRONOLOGICAL EXPERIENCE RECORD

**Dates** : From Mar. 2018 till now

**Project** : West Damietta Combined Cycle Power Station 1500MW  
(500MW GE frame 9E (Ex2100 & GPP2100) and 250MW Steam Turbine GE D202 (Ex2100E & GPP2100E))

**Job title** : Electrical Maintenance Engineer

**Job Description** :

- Carry out routine maintenance on generation plant and associated equipment and provide supervision for Electrical Technician(s) as required.
- Troubleshooting and repair of generation electrical plant and associated equipment to maintain the highest level of availability and reliability.
- Carry out and supervise new installations, modifications, and upgrades to electrical generation plant equipment as required.
- Accurate & timely completion of all documentation associated with maintenance work.
- Witnessing of testing / commissioning as required.
- Commissioning & Start-up of STG and its auxiliaries (Turning Gear Motor, Lubrication System).
- Commissioning of Generator Protection Panel (GPP 2100e) and its interface Signals.
- Commissioning of Transformer Protection Devices (T60, T35).
- Ensure the commitment of the contractors to the EPC contract specification.
- Ensure that the commissioning obligations of the project are carried out in accordance with the terms of EPC contract, quality and schedule in conformance with good practice of commissioning standards.
- Installation / Electrical Testing of Generator Terminal Enclosure.
- Document all electrical engineering activities and report on any contractual non-conformances.
- Provide expert technical advice on all electrical engineering activities.

**Dates** : From Jan. 2017 till Mar. 2018

**Project** : Damietta Combined Cycle 1200MW PP

**Job title** : Shift Charge Engineer

**Job Description** :

- Leading staff consist of 15 engineers and 10 technicians.
- Providing report on system performance.
- Report all plant upset conditions during Shift engineers.
- Direct assistant plant operator in condition monitoring of plant systems.
- Take the order to shut down or trip if there is any problem which effected on the units safety.
- Organize the engineers and technicians training courses.
- Make sure of the plant safety.

**Dates** : From Jul. 2011 till Mar. 2018

**Project** : Damietta Combined Cycle Power Station 1200MW

- Job title** : Control Room Operator
- Job Description** :
- Operating & monitoring boiler HRSG 250 ton/h (Borsig): DCS Operating Boilers HRSG (Heat Recovery Steam Generation) and its auxiliary such as HP & LP pumps, drums, super heater, filling, safety valves, pumps, instrument sets pressure gauges (PG) & transmitters (PT) and working in the emergency trip of HRSG (ET).
  - Monitor the condensate system, condenser, gland steam system, vacuum and water box vacuum system, control oil system, lube oil system, bypass system, circulating water system, ubs and rectification system.
  - Operating & monitoring plant auxiliaries like:
    - Instruments & service air compressors (2 stages, 9 bars, with dryer).
    - Diesel generators (2.4MW, 6.3KV Caterpillar).
    - Intake & water pump house and its D.C.S. control.
    - Closed cooling water, service water & circulate water.
  - Operating & controlling equipments through D.C.S (Westinghouse):
    - Ensure plant is running at optimal level, by reading trends and paying attention to detail to notice possible problems before they happen.
    - Report all plant upset conditions during Shift Engineers.
  - Operating & controlling equipments through ovation system control.
  - Operating & monitoring (220KV GIS (breaker and Half switchgear), 220/66KV GIS substation (Sectionalized bus) 135MW gas turbine units SIEMENS SGT5-2000E (V94.2), Operating by "SPPA T3000".
  - Operating & monitoring 220KV GIS (breaker and Half switchgear).
  - Operating and monitoring 220/66KV GIS substation (Sectionalized bus).
  - Operation and monitoring performance of SIEMENS SGT5-2000E (V94.2) single shaft single casing – twin vertical combustion chambers – 135MW base load unit gas turbine.
  - Carry out starting, normal operation, shut-down and stand still.
  - Trouble shooting analysis.
  - Analyze gas turbine faults and upsets, investigate and recommend solutions.
  - Monitoring all readings of pressure, temperature, flow rate, vibration, valve position, liquid levels and power generated.
  - Taking all steps to restore the normal operating condition in case of readings change due to causes not associated with the mod of operation.
  - Checking all auxiliary equipments and devices (auxiliary power supply, lubrication and control oil system, fuel oil system, fuel gas system and ignition gas system).
- Dates** : From Aug. 2009 till Jul. 2011
- Employer** : Damietta Sea Port (Import & Export)
- Job Description** : Electrical Maintenance Engineer for heavy equipment (diesel Generators, Baking station, electrical control panel and Belt conveyors).
- Field of experience** :
- Started as an Operation Engineer at a Damietta Combined Cycle Power Plant (220KV GIS (breaker and Half switchgear), 220/66KV substation (Sectionalized bus SF6 isolation, 6x135MW SIEMENS SGT5-2000E

(V94.2) Operating by "SPPA T3000", 6 HRSG 250 ton/h 65 bar (Borsig), 3 Steam turbine ALSTHOM 140MW and its auxiliary and 220KV, 66KV, 6.3KV (A.C.) & 220V, 48V. (D.C.) switchgears), my duties involved the operation of the units as a Control Room Operator and Shift Charge Engineer.

- Then work as Electrical Maintenance Engineer at West Damietta Combined Cycle (8x125MW GE frame 9E gas turbine, 8 HRSG (AC boiler & DOOSAN), 1x250MW GE ST and 1x250MW Ansaldo ST).