**100970-ELE-MO-E-2005**
Electrical Operation & Maintenance Engineer

Holds a B. Sc. in Electrical Power & Machines Engineering and has about 8 years hands-on experience, mainly in operation and maintenance of Damietta Combined Cycle Power Plant.

## PERSONAL DATA

| | | |
|---|---|---|
| Nationality | : | Egyptian |
| Birth Date | : | 12/02/1979 |
| Gender | : | Male |
| Marital Status | : | Married |
| Residence | : | Damietta |

## EDUCATION

: B. Sc. in Electrical Power & Machines Engineering, Helwan University, 2005

## LANGUAGES

| | | |
|---|---|---|
| Arabic | : | Native Language |
| English | : | Very Good |

## COMPUTER SKILLS

: Windows, MS Office (Word, Excel, Power Point), Internet
: Technical programming: Basic, C & Pascal Languages

## TRAINING COURSES AND CERTIFICATIONS

: Protection Fundamentals (P2) course in Cairo South Network Training Center, Nov. 2012.
: Types and testing of underground cables in the SEE (Egyptian Society of Electrical Engineers).
: Power transformer oil analysis and use the result to determine the technical status of the transformer and the oil.
: INSTRUMENT Transformers (CT & VT) and power measurements (P1) course in Cairo South Network Training Center, Jun. 2012.
: Training Course in HYOSUNG (GIS) 220KV & power transformers.
: Training Course in power & distribution transformer maintenance in ELMACO FACTORY.
: Training Course in MPIS and its applications.
: Training Course in Instruments Maintenance, certified from EDEPC (East Delta Electricity Production Company).

: Training Course in Siemens SGT5-2000E (V94.2) Operation, certified from EDEPC (East Delta Electricity Production Company).
: Training Course in GEC ALSTOM (Steam Turbine & Auxiliaries) Operation, certified from EDEPC (East Delta Electricity Production Company).
: Training Course in AEG (GIS) 220KV switchgear.
: Training Course in AEG (GIS) 66KV switchgear.

# CHRONOLOGICAL EXPERIENCE RECORD

**Dates** : From Apr. 2009 till now
**Employer** : East Delta Electricity Production Company (EDEPC)
**Project** : Damietta Combined Cycle Power Plant
**Job title** : Electrical Maintenance Engineer
**Job Description** :

- Maintenance, troubleshooting and electrical tests for:
  - Generators (TLRI) 135MW, 10.5KV (SIEMENS).
  - Steam generators 140MW, 11.5KV (ALSTOM).
  - Main transformers 152 MVA 10.5, 11.5/220KV (ONAF).
  - Auxiliary transformers 8.7 MVA 10.5/6.3KV (ONAN).
  - MV 6.3KV switchgear and LV 0.4 switchgear.
  - Medium & low voltage motors.
  - Medium & low voltage cables.
  - Motor Control Centers (MCC).
  - Potential transformers & current transformers.
  - Battery chargers & batteries.
  - Static & numerical (SIPROTIC) protection systems.
  - Low voltage distribution & lighting systems.
  - Interface between contactors activities.
  - Isolated phase bus ducts.
  - Other works.
- So I can:
  - Test the protection systems by secondary injection.
  - Preparing punch lists and follow up of closing their items.
  - Check the test procedures and test sheet.
  - Follow up the over all inspection procedures and check their items.
  - Follow up the spare parts and inspect it.
  - Follow up the change notes and its proposals.

**Dates** : From Jan. 2013 till Apr. 2013
**Employer** : Hyundai Heavy Industries CO. LTD – KSA
**Project** : Riyadh PP11 IPP Project Combined Cycle Power Plant
**Job title** : Commissioning & Start-up Engineer

**Dates** : From Mar. 2010 till Aug. 2010
**Employer** : Ansaldo Caldaie
**Project** : El-Tebbin 2x350MW Gas & Oil Thermal Power Plant
**Job title** : Commissioning Engineer / Boiler Desk Operator
**Job Description** : Sharing with the Ansaldo staff, since I have joined them in the commissioning & start-up procedures like pre-commissioning testing, first firing, passivation, steam blow out, first synchronizing & normal operation.

**Dates** : From Mar. 2008 till Apr. 2009
**Employer** : East Delta Electricity Production Company (EDEPC)
**Project** : Damietta Combined Cycle Power Plant
**Job Description** : Operating & monitoring Steam Turbine (GEC ALSTOM) Combined Cycle:

- High pressure (70 bar) & low pressure (4 bar) steam turbine driving elect. generator 11.5KV 140MW.
- Power transformer 11.5KV/220KV 152 MVA.
- Compliance to safety procedures.
- Operate through DCS based consoles in line with company's standard operating procedures.
- Performing the unit start-up and shutdowns per assigned target troubleshooting, effective response to emergency conditions.
- Monitor the operation of a power generating unit to ensure reliable and efficient generation.
- Compliance to safety procedures.

**Dates** : From Feb. 2007 till Mar. 2008
**Employer** : East Delta Electricity Production Company (EDEPC)
**Project** : Damietta Combined Cycle Power Plant
**Job Description** : Operating & monitoring Gas Turbine (Siemens V94.2):

- Two units of gas turbine v94.2 each one of them drive elect. generator TLRI 135MW, 10.5KV.
- Two power transformers each one 10.5KV/220KV, 152 MVA.
- Two power transformers 10.5KV/6.3KV, 8.7 MVA.
- Four units of air compressors.
- Performing the units start-ups and shutdowns per assigned target troubleshooting, effective response to emergency conditions.
- Monitor the operation of a power generating unit to ensure reliable and efficient generation.
- Compliance to safety procedures.

**Dates** : From May 2006 till Feb. 2007
**Employer** : East Delta Electricity Production Company (EDEPC)
**Project** : Damietta Combined Cycle Power Plant
**Job Description** : Operating & monitoring (GIS) 220KV switchgear (1.5) C.B. Arrangement:

- Operating & Monitoring:
  - Switchyard contains connections of 9 Generators, 6 Transmission Lines & 4 Power Transformers.
  - Control panels for these connections.
  - Protection systems of Transmission Lines & Transformers.
- Carry out the maneuvering of connect and disconnect Generators, 6 Transmission Lines & 4 Power Transformers.
- Monitor:
  - Protection systems of Transmission lines.
  - Isolation system of connections.
- Carry out safety isolation and precautions.

| | | |
|---|---|---|
| **Dates** | : | From Apr. 2006 till Nov. 2006 |
| **Employer** | : | Trust Chemical Industries (TCI) |
| **Project** | : | In Port Said |
| **Job title** | : | Electrical Maintenance Engineer |
| **Job Description** | : | • I have obtained:<br>- Some knowledge about medium tension cabins, switchgears & transformers.<br>- Some knowledge about instrumentation systems.<br>- Some knowledge about DC converters & soft starter.<br>• I can:<br>- Calculate each of loads & cables.<br>- Read the work shop drawings & P&I drawings.<br>- Go after any electrical break down which may stand in the way of operation.<br>- Maintain any failure in control panels & MCC cabins (low voltages). |