

**101599-ELE-12MPT-E-2004**  
**Testing & Commissioning Engineer**

Holds a B. Sc. in Electrical Power & Machines Engineering and has about 13 years hands-on experience working in maintenance, testing and protection.

## PERSONAL DATA

Nationality : Egyptian  
Birth Date : 27/05/1982  
Gender : Male  
Marital Status : Married  
Residence : Currently KSA

## EDUCATION

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

## LANGUAGES

Arabic : Native Language  
English : Very Good

## COMPUTER SKILLS

: Windows, MS Office, Internet

## TRAINING COURSES AND CERTIFICATIONS

- : Off-shore training in Searing - Belgium on Heat Recovery Steam Generator (HRSG) by CMI and B.O.P by INITEC Company.
- : At El-Kureimat Training Center and Site:
  - On-site training for Operation G.E. gas turbine module MS9001FA (6 weeks).
  - On-shore training on ALSTOM steam turbine.
  - On-shore training on Heat Recovery Steam Generator (HRSG) by CMI Company.
  - On-site training for ALSPA D.C.S. system (general representation "AP01-S5" and centralog operation "CL01-S5").
  - Protection Systems of 220KV switchyard (G.I.S.) by Siemens AG Company (175 training hours).
  - On-job training: Electrical and Mechanical operation training courses of Siemens gas turbine V94.3A by Siemens Company.
  - Medium voltage 6.6KV and low voltage switchgear of station by Siemens AG Company.
  - Event and fault recorder of G.I.S. 220KV switchyard by Siemens AG Company.

- Power line carrier by Siemens AG Company.
- Battery charger by Chloride Company.
- : Power System Protection training, The Arabian Electrical Engineers Association (AEEA).
- : Training for 6 months (from Oct. 2005 till Mar. 2006) at Technology Competency Center (TCC) Germany-Egypt Co-operation:
  - Automatic Control.
  - PLC step 5 programming Siemens module.
  - Advanced Electro Hydraulic control.
  - Advanced Electro Pneumatic control.
  - Closed Loop Control (P-I-D controller).
  - Computer Numerical Control (CNC).
- : PLC step7-200 programming, Don Bosco (Salesian Italy).

## CHRONOLOGICAL EXPERIENCE RECORD

- Dates** : From Jan. 2016 till now
- Employer** : AL-OSAIS INTERNATIONAL HOLDING COMPANY, Power Division
- Job title** : Testing & Commissioning Engineer
- Job Description** :
- Executed Complete functionality testing for projects in Saudi Arabia:
    - 115/13.8KV Substation, Alzohour, Dammam.
    - 115/13.8KV Substation, Alkhudariah, Dammam.
  - Worked as a Testing and Commissioning Engineer for the following job:
    - Protection Relay Testing.
    - Protection Scheme checking.
    - Transformer Testing.
    - GIS Equipment Testing.
    - MV Switchgear Equipment Testing.
  - Testing and Commissioning of Ext. of 115/13.8KV SS, Al-Zohour, Dammam for Saudi Electricity Company - Western Operating Area, KSA:
    - Preparing the As built documentations and red mark drawings.
    - Preparing of test procedure, test formats.
    - 115KV GIS feeders VT circuit check.
    - 13.8KV SWG feeders VT tests.
    - Synch check operations for 115KV GIS and 13.8KV switchgear.
    - Preparing the As built documentations and red mark drawings.
    - All CT testing, CT Sec. Injection & CT Loop Tests.
    - Testing MICOM 546 Line Diff & Distance.
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- Dates** : From Feb. 2015 till Jan. 2016
- Employer** : ELSEWEDY ELECTRIC Transmission & Distribution
- Project** : EEHC x 20 TM 2500 Project
- Job title** : Testing Engineer
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- Dates** : From May 2008 till Feb. 2015
- Project** : El-Kureimat III 750MW Combined Cycle Power Plant
- Job title** : Electrical Protection & Maintenance Engineer

- Job Description** :
- Responsible for maintenance and testing of electrical system of the combined cycle module Generator and Unit Transformer and Auxiliary Transformers.
  - Gas turbine Electrical Generators and protection system.
  - GE multi-function protection relay (G60 –T60 – T35) testing & commissioning by omicron CMC 356.
  - Areva multi-function protection relay (micom P121 – P343 – P632).
  - Gas insulated switchyard (GIS) protection SIEMENS DISTANCE RELAYS (7SA522-7SA612) troubleshooting & maintenance & interlock.
  - SF6 circuit breaker maintenance & testing.
  - Power transformer protection (T60 – 7UT612 – micom P632) & testing (turns ratio – tan  $\delta$  test – winding resistance – mechanical protection test).
  - Prepare the plan for major and minor inspection.
  - Generator Insulation Tests (megger – hipot test – winding resistance test).
  - RSO test for turn to turn in rotor.
  - Excitation system (reactive power control & power factor control & voltage control).
  - Static frequency converter (SFC) or load commutated inverter (LCI) for start-up gas turbine generator as synchronous motor (protection & troubleshooting).
  - ABB Generator Circuit Breakers (16KV) protection & testing & interlock.
  - Schneider and ABB MV Switchgear testing (on-off time test – contact resistance test – circuit breaker mechanism maintenance).
  - Variable frequency drives for ac motors troubleshooting
  - Batteries and Battery chargers and Uninterruptible Power Supply (UPS).
  - MV and LV motors protection & maintenance & troubleshooting & testing (megger test – heat run test...etc.).
  - Real time Power factor correction controller devices troubleshooting.
  - Static var compensation maintenance & troubleshooting.
  - High tension power factor controllers.
  - Single phase & three phase automatic power factor controllers.
  - AC LV Switchgear (Load Center, MCC).
  - Power transformer (220KV/19KV) maintenance.

**Dates** : From 2004 till 2008

**Employer** : 220KV ONE & HALF GIS EL-KUREIMAT SUBSTATION

**Job title** : Protection Engineer

**Job Description** : Worked as a Testing and Commissioning Engineer for the following job: Numerical and Static Relays (SIEMENS, GE, AREVA and ABB).

**Further experience** : Instructor in Iscosa Training Centre (SAUDI ARABIA) for many electrical courses such as:

- Transformers and tap changer.
- AC/DC motors.
- Electrical equipment maintenance and troubleshooting.
- Power factor correction.
- Ac drives.
- Motors rewinding.

- Field of experience :**
- Expert in the field of Testing and Commissioning of power system products, Expert in control and protection schemes. Trouble shooting of Extra High Voltage, high voltage power system with total experience of 13 years.
  - Approved from Saudi Electricity Company for Testing & Commissioning.
  - Experience in Testing and commissioning of electric works, extra high voltage and medium voltage switchgears.
  - Very good experience in all protection devices for different manufactures "O.C protection device, distance protection device, diff. protection device .....etc." used in KSA.
  - Very good experience at testing all protection devices "C.T, V.T, Power Transformers ....etc."
  - Expert in the devices of the protection system of the standard electrical network.
  - Expert in trouble shooting in protection schemes like Circuit breaker failure, Bus bar differential, Transformers, Transformer differential, Synchronizing, Automatic Voltage Regulator, Automatic bus transfer and control schemes, trouble shooting in operating equipment's and devices.
  - Expert in implementing the settings of Line Distance relays (SIEMENS-7SD522, AREVA-Micom P545).
  - Experience in Numerical Relays software (AREVA-Micom S1 Agile V1.1.0, SIEMENS-DIGSI V4.90, ABB-PCM 6.0 and BECKWITH).
  - Experience in Testing equipment's software (Omicron CMC256 plus Test Universe V3.0 - CPC100 - CT Analyzer, Freja Win).
  - Familiar with the following equipment's test:
    - Single phase relay tester - sverker 760 (make: GE Energy).
    - Three phase relay tester - freja 300 (make: GE Energy).
    - Primary current injection kit - oden (make: GE Energy).
    - Micro-ohm meter - mom 600A (make: GE Energy).
    - Digital low resistance ohm-meter-dlro-10x (make: megger).
    - Ct analyzer (make: omicron).
    - Delta 2000 tester (make: megger).
    - Primary Injection tester.
    - CPC 100 (make-Omicron).