

**103726-ELE-14MOS-E-2004**  
**Operation & Maintenance Engineer**

Holds a B. Sc. in Electrical Power Engineering and has about 13 years hands-on experience working as Operation & Maintenance Engineer in oil & gas field (off-shore / on-shore sites).

## PERSONAL DATA

Nationality : Egyptian  
Birth Date : 24/01/1981  
Gender : Male  
Marital Status : Married  
Residence : Currently Iraq

## EDUCATION

: B. Sc. in Electrical Power Engineering, Al-Azhar University, 2004

## LANGUAGES

Arabic : Native Language  
English : Very Good

## COMPUTER SKILLS

: Windows, MS Office (Word, Excel, Power Point), Internet

## TRAINING COURSES AND CERTIFICATIONS

: Classic control and PLC training course (Jelecom Center),  
: Offshore Sea Survival, GTSC Gulf Technical & Safety Training Center – Abu Dhabi – UAE.  
: SGT 700 (Siemens Gas Turbine-700) training (Siemens).  
: Gas Compressor (MBV 12 8A) (Siemens).  
: SCADA system at Technip KTI.  
: DCS system at Sidi Krir Power Plant.  
: OSHA general industry safety & health.  
: OSHA construction safety & health.  
: Pipe Line Modeling Software (leak detection system), "S.E.I.C".  
: First aid and Rescue training, Petro-safe.  
: Fire Fighting training (Petro-safe Company).  
: Permit to work with Task Risk Assessments.

## CHRONOLOGICAL EXPERIENCE RECORD

- Dates** : From Nov. 2012 till now
- Employer** : Petrofac International Company
- Project** : Off-shore Iraq crude oil export expansion on Al-Basra Oil Terminal (ABOT), SPMs Terminal & CMMP
- Job title** : Operation & Maintenance Engineer
- Job Description** :
- Take over all necessary incident preventive actions during normal operation (Job Safety Analysis, control measure).
  - Maintain the site HSE requirements (Raise PTW, Risk Assessments, isolation certificate, LOTO system).
  - Carry out weekly, monthly and yearly preventive maintenance as per the requirement of CMMS (Computerized Maintenance Management System).
  - Expert in systems documentation review.
  - Conduct periodic survey and carry out maintenance schedule for the electrical equipment on the platform (Diesel pump, Diesel generator, Closed & open drain pumps, HPU pump, pedestal crane, Life Boat, instrument air compressors, MOVs, ESDV, JB, Lighting system, Batteries check, HVAC system).
  - Maintenance and operation for switch Gears (MV 3.3KV, LV 400V), UPS, PDMS.
  - Conduct periodic survey and carry out maintenance schedule for the electrical equipment on SPMs (Solar panels, Dry batteries check and charging if required, electrical cable connection check).
  - Responsible for the deferent site testing requirements (loop check, insulation resistance test, field instrument calibration and configuration).
  - Site Equipment:
    - CMMP (Central Metering & Manifold Platform): Metering station "Ultrasonic flow meter", Auto sampler. Closed drain system, Open drain system, HPU, Air compressors "Atlas Copco type", leak detection system for Sub Sea valves, Emergency diesel generator, Switch gear. Transformers, UPS, ESD system, Fire fighting system, Motorize valves & Life Boat.
    - SPM (Single Point Mooring): Solar panel & dry Batteries, HPU (Hydraulic pressure unit), Floating loading hose, Hawser load, CPU (Center pipe unit), Surge tank, Sub Sea valves, Fiber optic & Radio channel communication.
- Dates** : From Oct. 2007 till Aug. 2012
- Employer** : Tecnimont KT Company (formerly Technip KTI)
- Project** : Oil & Gas Separation and Gas Compression Station in Egypt
- Job Description** :
- Shift Supervisor (from Oct. 2009 till Aug. 2012).
  - Electrical Maintenance Engineer (from Oct. 2008 till Oct. 2009).
  - Pre-commissioning & Commissioning Engineer (from Oct. 2007 till Oct. 2008).
  - Reporting to operation manager (Daily, Weekly & Monthly) reports.
  - Continuous manning of the Control Room for the monitoring and adjustment as required to the DCS system to control the process variables within the desired range(s) to achieve the facility product and

effluent specifications.

- Apply the performance curve for gas turbine and washing it in need as Siemens instruction and recommendation (weekly test).
- Achievement daily nomination.
- Supervise CROs and field operators.
- Take all necessary action in abnormal case to keep the plant in safe operation.
- Responsible for Safe operation, start-up & shutdown for the site.
- Participate in site reservation activities after project completion.
- Participate in pre-commissioning and commissioning for the Gas plant.
- Follow up the activities held in the field during commissioning & start-up period.
- Follow up test procedure & preparation for Siemens (SGT 700 & Gas compressor MV12 8A).
- Flushing and Hydro test for pipe lines.
- Leak test pipe lines by (air, nitrogen, natural gas).
- Hand over all equipment of the plant from vendors.
- Testing all rotating equipment in the field and by DCS system.
- Site Equipment: Scrubber, Filtering station, Metering station (Ultrasonic & Turbine flow meter, Auto sampler, gas analyzer), Discharge gas cooler, Pig launcher, Siemens gas turbine SGT 700 – 30MW, Siemens gas compressor (STC-12MV-8A), Fuel skid with gas heater, leak detection system on subsea line. Air compressors "Atlas Copco", Open drain pit, closed drain drum, raw water pumps, potable water unit R-O type, Fire fighting pump, emergency diesel generator, switch gear, transformers, UPS.

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| <b>Dates</b>           | : | From Dec. 2004 till Oct. 2007   |
| <b>Employer</b>        | : | West Delta Electricity Production Co. (WDEPC)   |
| <b>Project</b>         | : | Sidi Krir Steam Power Plant (2x320MW)   |
| <b>Job titles</b>      | : | <ul style="list-style-type: none"><li>• Electrical Maintenance Engineer (from Sep. 2006 till Oct. 2007)</li><li>• Control Room Operator (from Dec. 2004 till Sep. 2006)</li></ul>   |
| <b>Job Description</b> | : | <ul style="list-style-type: none"><li>• Reporting to Maintenance Manager.</li><li>• Maintenance and operation for switch Gears (HV, MV, LV), (Air, Vacuum &amp; SF6 C.Bs), UPS, Batteries, Excitation control system, power transformers, Generator.</li><li>• Maintenance for MV &amp; LV motors, LC, MCC.</li><li>• Maneuvered in switch yard 220KV (one &amp; Half C.B).</li><li>• Participate in total plant shutdown maintenance activities (yearly shutdown).</li><li>• Supervise and coaching electrical technicians.</li><li>• Maneuvering in switch yard (220KV).</li><li>• Site Equipment: Boiler Water tube type (gas, Mazout) firing with it's auxiliaries (Ecnomizer, Gas heater, GR fan, FDF fan, Drum, Air heater ...), Re-boiler, Steam turbine (Siemens) with its auxiliaries (lube oil, control oil, seal oil, etc.), boiler feed water turbine &amp; electrical pumps, circulate pump, air compressors, closed cooling system, heat exchanger, hydrogen unit ...etc., desalination unit, Switch gear, Transformers, Generator, Emergency diesel generator, UPS....</li></ul> |

- Field of experience :**
- About 13 years experience as Operation & Maintenance Engineer in Oil & Gas, Offshore & onshore sites and thermal power station.
  - Reporting to operation & Maintenance manager (daily activities, weekly and monthly report).
  - Carry out preventive and corrective maintenance for the electrical equipment as planning.
  - Familiar with MAXIMO, CMMS systems.
  - Familiar with PTW (permit to work) classifications (Hot, cold, excavation, confined space and electrical isolation certificate), lockout tag out station, JSA (job safety analysis), TRS (Task Risk Assessment) & ORA (Operation Risk Assessment).
  - Participate in commissioning and modification, conduct periodic survey and carry out maintenance schedule for the electrical equipment, troubleshooting for deferent equipment, Supervise and coaching electrical technician.
  - Reviewing documentation, Schematic diagram (power circuit, control circuit, Electrical & Mechanical interlock circuit breakers .....etc.).
  - Wide experience with different electrical equipment including (substation, transformers, CBs, Motorize valves, Pneumatic valves, pumps, UPS, Batteries, Diesel generator, Gas turbine .....etc.).
  - Analysis and diagnostic as necessary, improvement the production follow up and test the logic of equipment.
  - Provide accurate and clear communications and instructions to other operations team personnel to coordinate and enable the achievement of team targets.
  - Supervise the preparation of the isolation & safety conditions for maintenance staff to correct defect in equipment and follow up maintenance activities during the shift.
  - Reviewing documentation, P&ID, ESD system, F&G, Cause & Effect.
  - Reviewing the procedures and modify if need, prepare new procedures for new task.
  - Responsible for Safe operation, start-up & shutdown for the site.
  - Skills:
    - Oil and gas experience.
    - Wide experience in P&ID, Cause & effect logic, ESD and SIS system.
    - HSE awareness.
    - Excellent communication and interpersonal skills.
    - Team work.
    - Computer application and networking.
    - Presentation skills.
    - Project planning skills.
    - Commissioning skills.
    - Coaching and Supervision.
    - Information Sharing and development.