

**103621-MEC-148EMO-E-2008**  
**Operation & Maintenance Section Head**

Holds B. Sc. and M. Sc. in Mechanical Engineering and has about 14 years hands-on experience working in maintenance, operation and technical office.

## PERSONAL DATA

Nationality : Egyptian  
Birth Date : 28/03/1986  
Gender : Male  
Marital Status : Married  
Residence : Damanhour

## EDUCATION

: B. Sc. in Mechanical Engineering, Alexandria University, 2008  
: M. Sc. in Mechanical Engineering, Alexandria University, 2015

## LANGUAGES

Arabic : Native Language  
English : Very Good

## COMPUTER SKILLS

: Windows, MS Office (Word, Excel, Power Point), Internet  
: AutoCAD (2D & 3D)  
: Matlab program  
: Primavera program  
: MP2 (Maintenance management program)  
: Proshow Gold (Video maker)

## TRAINING COURSES AND CERTIFICATIONS

: Certified Reliability Engineer (CRE) preparation course (Jun. 2021).  
: Certified Maintenance Reliability Professional (CMRP) preparation course (May 2020).  
: Certified ISO 45001 Lead Auditor (Nov. 2019).  
: Occupational noise measurements and uncertainty Calculations (Apr. 2019).  
: ISO 17025:2017 Awareness (Dec. 2018).  
: ASME Awareness (5-8-9-B31.3) (Nov. 2018).  
: Siemens PLC SIT-PRO LEVEL 1 (Apr. 2018).  
: Calibration of RTDs at National Institute of Standards (Nov. 2017).

- : Certified ISO 9001 Lead Auditor (Aug. 2017).
- : Reliability centered maintenance (Aug. 2016).
- : Certified OHSAS 18001 Lead Auditor (Mar. 2016).
- : Six Sigma Yellow belt (Mar. 2015).
- : Toefl IBT preparation course (Oct. 2014).
- : PMP preparation course (Sep. 2014).
- : HAZOP Leaders (Aug. 2014).
- : OSHA General & Construction (Aug. 2014).
- : Risk assessor (Mar. 2014).
- : Seven habits (Jan. 2013).
- : Pumps maintenance (Apr. 2010).
- : Maintenance, operation and safety of chlorine systems (Mar. 2010).
- : MS Office (Windows - Word - Excel) (Sep. 2009).
- : Maintenance of plants using computer program (Sep. 2009).
- : Operating and maintenance of water plants (Mar. 2009).
- : Microcontroller programming (Aug. 2008).
- : Vibration Monitoring & analysis (Feb. 2007).
- : Project Management by using Primavera program (Jul. 2007).
- : MATLAB program (Aug. 2006).
- : Summer trainings at Middle East Operation & Maintenance for Hydrocarbons Industries (MIDOM) (2005 - 2006 - 2007).

## CHRONOLOGICAL EXPERIENCE RECORD

- Dates** : From Jun. 2010 till now
- Employer** : National Gas Company (NATGAS)
- Job title** : Operation & Maintenance Section Head
- Job Description** : Operation and Maintenance Engineer in a natural gas (480,000 SM3/hr) Pressure reduction and metering station and 43 Km gas pipeline, responsible for:  
Maintenance and operations:
- Ensure that all works under HSE Instructions (risk assessment – Tool box – Work permit – CAR, PAR & NCR).
  - Handling external Audits (EGAS).
  - Prepare annual maintenance and calibration plans.
  - Provide technical support to technicians.
  - Prepare rotation schedules.
  - Prepare annual needs spare list.
  - Prepare annual objectives for technicians.
  - Prepare annual training plan (External and Internal).
  - Improve and apply maintenance procedures scheduled works:
    - Liquid Separators (Petrofiorentini).
    - Filters (GTS – Petrofiorentini).
    - Spring loaded and piloted regulators (Gorter- Petrofiorentini).
    - Water bath heaters (Petrofiorentini).
    - Turbine meters (Actaris – RMG).
    - Ball globe and plug valves (Petrofiorentini – Serck Audco – RMA).

- Supervising operations in the site.
- Training technicians on maintenance and operation works.

Auditing:

- Prepare and update all documentation of management system to meet requirements of ISO 9001:2015, 45001:2018 and 14001:2015.
- Performing Internal Audits and handling External Audits (certification body).

Technical Affairs & Purchasing:

- Contact with internal and external suppliers for need spare parts and materials.
- Reviewing offers and tenders.
- Study and Propose Technical solution.
- Prepare reports about technical solutions and suggestions.

Calibration Lab:

- Prepare and update of all documentation of management system to meet requirements of ISO 17025:2017.
- Performing calibration of analog and digital pressure gauges.
- Performing calibration of RTDs (PT100).

Achievements:

- I shared in setting up a calibration Lab by preparing manuals and procedures.
- I invented a new technique to clean up liquid separators which have clogged by accumulated dust.
- Provide technical and maintenance services to local market in field of natural gas (NATGAS – FAYUM GAS – ARCOSTEEL – SINAI GAS).

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|------------------------|---|--|
| <b>Dates</b>           | : | From Sep. 2008 till Apr. 2010  |
| <b>Employer</b>        | : | Behira Water and Drainage Company (BWADC)  |
| <b>Job title</b>       | : | Operation & Maintenance Engineer   |
| <b>Job Description</b> | : | <ul style="list-style-type: none"> <li>• I shared in mechanical rehabilitations team works:           <ul style="list-style-type: none"> <li>- Installation of raw water pump house (horizontal pumps 200 kw – valves – non return valves – Priming systems).</li> <li>- Installation of drinking water pump house (horizontal pumps 400 kw – valves – non return valves – Priming systems).</li> <li>- Installation of chlorine injection systems (Booster pumps – injection instruments).</li> <li>- Installation of Washing house (blowers – valves – non return valves – flexible joints) &amp; (horizontal pumps 200 kw – valves – non return valves – Priming systems).</li> <li>- Installing of chemicals house (Dosing Pumps – Dampers – y filters – PVC Pipe Works).</li> </ul> </li> <li>• Operation &amp; maintenance works:           <ul style="list-style-type: none"> <li>- Ensure that all works Consistent with HSE Instructions (risk assessment – Tool box – Work permit - CAR, PAR &amp; NCR).</li> <li>- Improve and apply maintenance procedures schedule and works:               <ul style="list-style-type: none"> <li>▪ Horizontal &amp; vertical centrifugal pumps (KSB – Allweiler).</li> <li>▪ Blowers (Robuschi).</li> <li>▪ Clarifiers - sand filters - chlorine injection systems - Dosing pumps.</li> </ul> </li> <li>- Improve and apply Calibration scheduled works (pumps – automatic actuators).</li> </ul> </li> </ul> |

- Supervising operations in the site.
- Contact with procurement dept. for needed spare parts.
- Solving problems that could interrupt the operation works.
- Achievements:
  - I improved the water plant performance by:
    - Keeping water plant production at the maximum by applying preventive maintenance principles.
    - Saving chemicals by applying scheduled calibration to dosing pumps.

**Skills:**

- Dealing with Power circuits (220/380 ACV) & Control circuits.
- Detecting & Solving Power & Control faults using wiring diagrams.
- Instruments:
  - Avometer - Clamp meter.
  - Pressure calibrators (Fluke 718 - 719) – RTD calibrators (Fluke 712) – Digital gauge - CTD9100 Wika - Hart communicator 475 Emerson.
  - Metal detector (PCM plus Pipeline Current Mapper System by Radiodection).
  - Portable combustion and emissions analyzer (Lancom by Land Land Instruments International).