

103642-MEC-58DM-E-2010
Mechanical Maintenance Manager

Holds a B. Sc. in Mechanical Power Engineering and has over 11 years hands-on experience working in maintenance field with a good background in Thermodynamics, Fluid Mechanics, Heat transfer, etc.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 21/08/1988
Gender : Male
Marital Status : Engaged
Residence : Dakahlia

EDUCATION

: B. Sc. in Mechanical Power Engineering, Mansoura University, 2010

LANGUAGES

Arabic : Native Language
English : Good

COMPUTER SKILLS

: Windows, MS Office (Word, Excel, Power Point), Internet
: 3D modeling software: Autodesk products (Revit MEP, AutoCAD, Catia, Solid Works)
: CFD (computational fluid dynamics) and solid mechanics analysis software

TRAINING COURSES AND CERTIFICATIONS

: Training Center (DKWASC):

- Standard operation of drinking water treatment plants.
- Mechanical maintenance of pumps.
- Design and hydraulic principles analysis of Drinking Water Treatment Plant.

: Egy Cet Center for Engineering Training: HVAC, Fire Fighting, Plumbing (Design Course with practical experience).

: CAD CAM CIM (Solid Works Reseller in Egypt):

- CSWP (Certified Solid Works Professional).
- Solid Works – Advanced Sheet Metal Specialist.
- Solid Works – Advanced Weldments Specialist.
- Solid Works – Advanced drawing tools.
- Solid Works – Advanced surfacing professional.

- : 2010: Algamaliaa Drinking Water Treatment Plant & Port Said Treatment Plant (Suez Canal Authority): 2 weeks training in the plant in different departments from the water intake, low lift pumps, mixing coagulation and sedimentation basins, filtration, disinfection and finally storage.
- : 2009: Abu Sultan Power Plant: Attended sessions about the working cycle inside the plant & introduced to different zones specially control room.
- : 2008: Talkha Combined Cycle Power Plant: The 750MW Power Plant consists of 2x250MW gas turbines powered by natural gas + 1x250MW steam turbine powered by exhaust gas, attended sessions about the working cycle inside the plant, the production, transmission & distribution of electric power, introduced to different zones: boilers, turbines, transformers & the control room.
- : 2006 & 2007: Mansoura's summer training: 1 month training at the workshops & labs in faculty.
- : ICDL

CHRONOLOGICAL EXPERIENCE RECORD

- Dates** : From May 2015 till now
- Employer** : Daqahliyah Water and Sewer Company (DKWASC)
- Project** : El-Gamaliya water treatment plant
- Job title** : Mechanical Maintenance Manager
- Job Description** :
- Responsible of the mechanical maintenance of the whole plant with capacity of 103.000 m³/day of treated water, Ensure maintenance and efficient day to day operations of all plant departments from the water intake to Raw water pumping station then the treatment operation by the addition of aluminum sulphate dosing in clarifloculators with associated flash mixing tank and the filtration process in rapid sand filters then the chlorine dosing in treated water tank to pump water in the local network with treated water pumps.
 - Operate and maintain three diesel generators with capacity of 1500 KVA to operate some units in emergency cases.
 - Develop and implement Preventive and predictive maintenance programs for all plant using Master program.
 - Achievements:
 - Activation of the preventive maintenance plan, which led to the reduction of sudden faults.
 - The Plant receives a certificate of sustainable technical management (TSM) from the German Society for International Cooperation (GIZ).
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- Dates** : From Jun. 2014 till May 2015
- Employer** : Zanussi Manufacturer Compressors (ZMC), 10th of Ramadan
- Job title** : Mechanical Maintenance Engineer (Utility Dept.)
- Job Description** :
- Manage and direct all utility operations to assure low cost reliable utilities are provided.
 - Ensure maintenance and efficient day to day operations of all plant boilers, cooling towers, Water treatment, electrical power station, air compressors, central Air conditioning system (chillers, AHU) and forklift:
 - Develop and implement preventive and predictive maintenance

programs for all key utility equipments such as Boilers, air compressors and forklift.

- Dates** : From Nov. 2013 till Jun. 2014
- Employer** : Zanussi Manufacturer Compressors (ZMC), 10th of Ramadan
- Job title** : R&D Engineer (Mechanical Design Engineer)
- Job Description** :
- Mechanical design of compressor components and component assemblies with specific applications to Fluid-dynamics and Thermal analysis problems, using state of the art CFD/Thermal analysis tools for detailed investigations and process of optimization, Applied also to fluid-structure interaction problems. Economic analysis of identified Solutions. Assembling and testing prototype of new design with Solid Works 3D CAD software, design tests set-up and test verifications to evaluate and support components design.
 - Achievements:
 - ZMC new valve group design for hermetic compressor AZ models (AZ Marketed last year 6 million Egy pound).
 - Modeling and Mechanical analysis for mechanical components with Solid Works FEA Simulation and replacing the upper bearing component with increasing the crank case hub compensating the difference in balance and analyzing CFD for suction line with ansys fluent.
 - Dynamic analysis for moving mechanism in compressor (Crank Shaft, Connecting Rod, Piston) and optimization study minimizing reaction forces on shaft bearing (crank case) and mass with the most stress loading due to motion.
 - Research and development lap construction, new machines setup and experiment's procedures preparation and analyzing.

- Dates** : From Apr. 2011 till Sep. 2013
- Employer** : NSPO, Egyptian Armed Forces, Qasassin – Ismailia
- Job title** : Maintenance Engineer
- Job Description** :
- Maintenance of military vehicles.
 - Maintenance of automated milk production line (capacity 5 ton/day).
 - Maintain vacuum pumps, air compressors, compressed air lines, pneumatic system of production line and cooling tanks of milk.