

105801-MEC-1CMSY-E-2014
Mechanical Maintenance Engineer

Holds a B. Sc. in Mechanical Power Engineering and has over 4 years hands-on experience working in construction, maintenance and commissioning.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 30/06/1992
Gender : Male
Marital Status : Single
Residence : Alexandria

EDUCATION

: B. Sc. in Mechanical Power Engineering, Alexandria University, 2014

LANGUAGES

Arabic : Native Language
English : Excellent
German : Basics

COMPUTER SKILLS

: Windows, MS Office, Internet
: AutoCAD
: Solid Works

TRAINING COURSES AND CERTIFICATIONS

- : Training of Vibration Analysis (Bentley Nevada 3500 & 1900 system) (Oct. 2018).
- : Training of Pumps (Design, Operation and Maintenance) from HYOSUNG GOODSORINGS INC especially in (feed water & Condensate pumps) (Sep. 2018).
- : Project Management Professional (PMP), Certified from Egyptian Engineers Syndicate.
- : Refineries Commissioning and Start-up of Mechanical Equipment, Certified from ESS of The American University in Cairo (AUC):
 - Pre-commissioning & commissioning (procedures, preparation, required tools, safety precautions, etc.).
 - Stationary Equipment (Towers, Reactors, Heat Exchangers, Vacuum Towers & Vessels, Storage Tanks, etc.).
 - Rotating Equipment (Pumps, Compressors, Drivers, Electrical Motors,

- Diesel Engine, Steam Turbine, etc.).
- Isolation Standards.
- Rotary Equipment Alignment.
- : Non-Destructive Testing (NDT) Methods level I & II (PT, MT, UT, VT and RT), Certified from American Society for Nondestructive Testing (ASNT).
- : Gas Turbine Operation, Selection and Maintenance, Certified from Oil & Gas Skills (OGS).
- : Vibration Analysis, Certified from Oil & Gas Skills (OGS).
- : Compressors, Certified from Science & Technology Engineering Center.
- : HVAC Diploma, Certified from Egyptian Engineers Syndicate.
- : Instrumentation Diploma, Certified from Egyptian Engineers Syndicate.
- : Turbo Machinery Diploma, Certified from Egyptian Engineers Syndicate:
 - Pumps and Compressors.
 - Steam and Gas Turbines.
 - Bearings and Alignment.
 - Seals and Couplings.
 - Heat Exchangers.
 - Piping and Valves.
- : Trainings at:
 - Al-Mansour Automotive (Mansour Chevrolet) (Aug. 2013).
 - Abu Qir Fertilizers Company (Jul./Aug. 2012).
 - Mantrac Egypt, Alexandria branch (Jul. 2012).
 - Abu Qir Fertilizers Company (Jul./Aug. 2011).

CHRONOLOGICAL EXPERIENCE RECORD

- Dates** : From Oct. 2019 till now
- Employer** : Egyptian Maintenance Company (EMC) for Petroleum Services
- Project** : TCI Sanmar Petrochemicals SAE - Port Said, Egypt
- Job title** : Mechanical Maintenance Engineer (Rotating & Static Equipment)
- Job Description** :
- Perform corrective, preventive and predictive maintenance activities for rotating and static equipment.
 - Participate in maintenance plans management (Master Plan & MWI) using CMMS software.
 - Plan, Schedule & Coordinate planned and corrective maintenance and estimate recommended manpower, spare parts and timeframe.
 - Participate in material control management based on inventory parameters
 - Troubleshooting and root cause analysis (RCA) for equipment.
 - Commissioning and start-up for mechanical equipment.
 - Manage work activities based on safety standards and preparing different types of work permits attached with risk assessment, TBT, SWI and marked P&ID.
 - Participate in creating lifting plans of equipment.
 - Equipment overhauling and maintenance activities including parts clearance measurement, shaft run out & end play, balancing, alignment, flushing & jet pump cleaning, hydro & pneumatic testing, etc.
 - Responsible for rotating & static equipment such as Pumps (centrifugal (single & multi stages) & positive displacement (gear, diaphragm, plunger, progressive cavity) which are compatible with acidic, caustic,

flammable and hazard liquids (M/S.API Plan 31, 32, 53B, 54, 62), Compressors (Screw, liquid ring (single & multi stages) and centrifugal), Fans & Blowers, Centrifuges, Agitators & Gearboxes, Pressure Vessels & Columns, Reactors, Heat exchangers (shell & tube (fixed, U tube and float type), plate and spiral), Valves (isolation, control and safety), Piping fabrication & welding, Utilities such as (Boilers (water & fire tube), Cooling Towers, Chilled water & glycol systems, Incinerator area and ZLD water treatment plant) and finally Bagging Machines & Conveyors Systems.

- Dates** : From Nov. 2017 till Oct. 2019
- Employer** : ORASCOM CONSTRUCTION
- Project** : New Assiut Combined Cycle Power Plant 1500MW
- Job title** : Mechanical Commissioning & Maintenance Engineer (Rotating & Static)
- Job Description** :
- Punch lists for systems before commissioning activities.
 - Chemical cleaning activities for Boilers (HRSG) (Doosan Boiler), Feed water and Condensate systems.
 - Installation activities after chemical cleaning such as internal parts of valves, flow meters, etc.
 - Final alignment of coupling and flanges for mechanical equipment.
 - Preservation of the Boilers by Nitrogen gas (dry and wet).
 - Stroke adjustment for motorized and control valves such as AUMA valves with I&C team.
 - Solo run and mechanical load tests for equipment.
 - Flushing and commissioning procedures for systems.
 - Air blowing and flushing activities for systems such as closed cooling, condensate, boiler feed water, lube oil, hydraulic, etc.
 - Steam blow activities and target plate inspection for each steam path.
 - Vacuum system commissioning and decay test.
 - Hot Cleaning activities for Air Cooled Condenser (B&W SPIG).
 - Commissioning activities for auxiliary skids of steam turbine and generator such as lube and seal oil, hydraulic, steam seal, gland steam condenser and gas analyzer skid (H2, Co2 and N2).
 - Steam turbine (GE D202) (250MW) commissioning activities.
 - Participating in performance tests for Gas Turbines (GE-9E.03) (125MW).
 - Combined cycle plant performance and reliability tests.
 - Responsible for systems and equipment preservation in outage period.
 - Preventive Maintenance for static and rotary equipment such as boilers (Doosan), valves, steam turbine (GE), lube & seal oil skid, boiler feed water & condensate pumps (HYSOUNG), closed cooling & demin pumps (Garbarino), Drain pumps (KSB), Vacuum pumps (NASH), oil free compressors (Atlas Copco), ACC (B&W SPIG), etc.
 - Overhauls and maintenance activities for some equipment:
 - Boiler feed water pump overhaul (HYSOUNG) / (12 stages) including rotating & stationary parts tolerance check such as (impellers, balance disc, balance piston, mechanical seals and static guide vanes), shaft run out, journal bearing & thrust ball bearing change and bearing alignment.
 - ACC fan unit including motor bearings change and pitch angle adjustment of fans blades.

- Mechanical seals change for some pumps such as boiler feed water & re-circulation pumps (HYSOUNG) and closed cooling pump (Garbarino).
- Fully dismantling of thrust journal bearing for Steam Turbine.
- Making overhauls for some valves (isolation, control and safety valves).
- Participating in HP Steam Turbine (GE D202) (250MW) overhaul with GE team.

Dates : From Feb. 2017 till Nov. 2017
Employer : ELSEWEDY ELECTRIC (PSP)
Project : Beni Suef Combined Cycle Power Plant 4800MW
Job title : Mechanical Construction Engineer (Piping & Mechanical Equipment)
Job Description :

- Construction activities such as fabrication and erection of (piping & supports) for boilers (NEM Boiler), BOP and STG scope.
- Visual inspection for fabrication and welding
- Hydro test activities for piping loops including test preparations such as valves internals replacement with hydro plugs.
- Walk down for systems using P&ID and isometrics.
- Mechanical equipment (static and rotating) installation.
- Participate in creating lifting plans of equipment.
- Pre & final alignment of mechanical equipment (coupling & equipment flanges (stress free of bolts)).
- Plan & report of daily progress and implementation of punch lists.

Dates : From Jun. 2016 till Feb. 2017
Employer : Alexandria Company for Industrial Packages (ACIP Egypt) - one of ABCO United Group for Plastics & Chemicals
Job title : Mechanical Maintenance Engineer
Job Description :

- Operation and maintenance activities for Injection Molding Machines, Pet preform Injection Molding Machines, Pet preform blowing machine, Hydraulic systems, Air Compressors (Screw & Reciprocating), Pumps (centrifugal & Positive displacement), Chillers and Cooling Towers.
- Creating maintenance plans (PM & master plan) for each machine according to machine manual and manufacturer instructions.
- Reporting breakdown root case and equipment faults to management.
- Carrying out preventive maintenance schedules at the exact time and according to work conditions.
- Carrying out monthly key performance indicator (KPI) and annual maintenance budget for factory.

Dates : From Dec. 2015 till Jun. 2016
Employer : Al Sakr Group for Food Industries
Job title : Mechanical Maintenance Engineer at Utilities Department
Job Description : Operation and Maintenance for Water Treatment Plants (RO & softening plant), Fire Tube Boilers, Pumps, Air Compressors, Cooling Towers, Refrigeration Systems and HVAC Systems.
Achievements: The best achievement during my period is to save about 35000 Egyptian Pound per month by reducing the fuel consumption of the

Boilers with generating the same steam demand.