

105147-CHE-18HMO-E-2013
Operation & Maintenance Engineer

Holds a B. Sc. in Chemical Engineering and has about 8 years hands-on experience working as Chemical Engineer in the field of process engineering.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 03/10/1989
Gender : Male
Marital Status : Married
Residence : Assiut

EDUCATION

: B. Sc. in Chemical Engineering, Higher Institute of Engineering – El-Shorouk Academy, 2013

LANGUAGES

Arabic : Native Language
English : Very Good

COMPUTER SKILLS

: Windows, MS Office, Internet
: Experience in using computer applications in water treatment: Rosa - IMS design - Cadix
: Experience in using computer applications related to chemical engineering: Pipe Line Design - Two-Phase Flow - THEN - Fired Heater Design - Short Cut Method

TRAINING COURSES AND CERTIFICATIONS

: Certified Trainer at Saudi National Water Company for (preparation) program 2022.
: Refinery Diploma using Dynamic Process Simulation Software: Equipment simulation using Hysys - Distillation tower - Separator - Pumps - compressor Fired heater.
: Steam Turbine - Maintenance GE training.
: Feed water pump and condensate pump training of Assiut Combined Power Plant.
: Operation of GE gas turbine FRAME 9E for one month in El-Shabab Power Plant.
: Chemical cleaning of HRSG (ENSOL Company).

- : Trainings at:
 - Assiut Oil Refining Company.
 - Sector factories Assiut Fertilizer (Manqabad).
 - Treatment Company of drinking water and sewage.

CHRONOLOGICAL EXPERIENCE RECORD

- Dates** : From 2015 till now
- Employer** : Upper Egypt Electric Production Company
- Project** : West Assiut CC Power Plant 1500MW
- Job title** : Operation & Maintenance Engineer in WTP
- Job Description** :
- Operation and maintenance WTP by PLC-SCADA automation system which consists of:
 - Raw water Pretreatment System (self-cleaning filters & Ultra Filtration) 20000 m³/day.
 - Reverse Osmosis System (1st RO stage) 28000 m³/day.
 - Reverse Osmosis System (2nd RO stage) 12000 m³/day.
 - Demineralization System (CEDI) 10000 m³/day.
 - Potable Water and Waste Water Treatment System.
 - Sewage Treatment Plant and Oil Water Separation System.
 - Attended all erection works and hydrostatic tests for units.
 - Applied commissioning procedures for RO, CEDI, UF systems as a representative of UEEPC and I was responsible for commissioning activities to municipal and industrial water and wastewater treatment equipment applications and associated components including pumps, heat exchangers, mixers, pressure vessels, membranes equipment, instrumentation, valves, and piping systems.
 - Attend the daily meeting to review the status of the plant and discuss what is planned for the day.
 - Tour the plant to check for the abnormal situation and take a reading of the main parameters and collect technical data to ensure that the plant is working properly.
 - Perform lab analysis and prepare chemical for smooth plant operation.
 - Daily checkup for all rotating equipment.
 - Following the condition monitoring and vibration analyses report & predictive maintenance for all rotary equipment.
 - Preventive and Corrective maintenance for (centrifugal pumps - centrifugal compressors - screw compressors - centrifuges - high speed vertical submersible pumps).
 - Periodic maintenance and all troubleshooting for (pumps - compressors - centrifuges and valves).
 - Managing all plant technicians' time sheets, attendance, overtime, and shift schedules.
 - Carrying out all jobs risk assessment, creating safe working area by isolating the equipment and open work permits by applying LOTO devices with cooperation with the HSE team.
 - Achievements:
 - Working on studies for reducing the amount of RO effluent water by installation effluent reuse system 240 m³/hr.
 - Working on studies for improving the efficiency of CEDI units by installation membrane degassing units.

- Prevent water hammering at feed lines of the UF system and RO units by installation air vent and safety valve.
- Installation permanent instrument airline to RO skids instead of local air compressors.
- Installation of automatic valves instead of manual valves as protection at RO product lines to avoid human operator error.
- Reduce waste water T.D.S by change back wash water source for UF system.

Dates : From 2014 till 2015

Employer : Upper Egypt Electric Production Company

Project : West Assiut CC Power Plant 1500MW

Job title : Gas Turbine Operation Engineer (GE frame 9E 1000MW)

Job Description :

- Responsible for shift control room operations, plant monitoring, noticing and responding to process devoting and alarms.
- Operating and controlling the technical equipment of the Plant.
- Responsible for plant smooth operations, Control room operations & taking planned start up per SOP's.
- Following proceeding for unit load increasing and decreasing according dispatcher requirements.
- Preparing shift activity reports, daily plant generation and gas consumption details and preparing permits during shut down.
- Responsible for ensuring compliance to all statutory, environmental & waste disposal requirements.
- Perform isolation and safety tag out of equipment & ensuring safety measures during activities.
- Perform offline/online washing for turbines.
- Following proceeding for unit (turbine, and axillaries) shut down.

Job title : HVAC Engineer

Job Description :

- Making preventive maintenance for air condition units (split-central).
- Perform corrective maintenance for malfunction of units.

Further experiences :

New Assiut Combined Cycle ADD-ON 500MW Power Plant:

- Apply commissioning procedure of closed cooling water system.
- Apply commissioning procedure of chemical feed system.
- Apply performance tests of pumps and motors (solo run test and load run test).
- Apply commissioning procedure of demineralized water system.
- Apply the commissioning procedure of the wastewater system.
- Apply commissioning procedure of service water system.
- Apply steam blow commissioning procedure.
- Receiving the insulation and painting and performing the Walk-down survey and making a punch list of the combined cycle power plant.
- Apply chemical cleaning and flushing for HRSG and condensate of CCPP.
- Apply all hydro-static tests for HRSG and condensate of CCPP.
- Apply pickling and passivation procedure.
- Responsible for all mechanical issues for the firefighting system (SANCO SYSTEM).

- Perform fire test and evacuation plan every month.