

105281-MEC-145MS-E-2004

Commissioning, Start-up & Maintenance Engineer

Holds a B. Sc. in Mechanical Power Engineering and has about 13 years hands-on experience working in commissioning, start-up and maintenance.

PERSONAL DATA

Nationality : Egyptian
Birth Year : 1982
Gender : Male
Marital Status : Married

EDUCATION

: B. Sc. in Mechanical Power Engineering, Helwan University, 2004

LANGUAGES

Arabic : Native Language
English : Excellent

COMPUTER SKILLS

: Windows, MS Office, Internet
: AutoCAD 2D & 3D

TRAINING COURSES AND CERTIFICATIONS

- : Onshore Gas Development OGD III (UAE):
 - HSE Induction.
 - LOTO (Lock Out Tag Out).
 - Centrifugal pumps (by WEIR GABBIONETA).
 - Nitrogen plant operation (by Air Products).
 - Note: Bechtel web site online Courses: Bechtel University.
- : O&M for Heat Recovery Steam Generation including auxiliaries & Balance of plant, NEM Company for HRSG (HOLLAND).
- : GE training course - O&M for 90001FA gas turbines (GE / Egypt).
- : Cairo North Power Station (EGYPT):
 - Training in Shoubra El-Kheima Power Plant: Bechtel course - Basics of power station.
 - O&M for GE gas turbine auxiliaries & diesel generator – TECHINT Company.
 - Firefighting systems operation – Chepro Company.
 - Operation of combined cycle power plant – CEPC.
 - O&M for Condenser tube cleaning system and debris filter – TAPROG

- Company.
- : Mercedes-Benz (EGYPT):
 - CMMS (Computerized Maintenance Management System) – C Work Company.
 - MSA (Measurement System Analyses) – TUV NORD Company.
 - FMEA (Failure Mode and Effect Analysis) – TUV NORD Company.
- : ASHRAE Cairo Chapter (EGYPT) Principles of Heating & Cooling Loads Estimation.
- : RITI (EGYPT) Project Management Professional, Training certificate.
- : Six Sigma Yellow Belt training (Bechtel, Egypt).
- : English: IELTS 6.5.
- : PLC (SIEMENS training).

CHRONOLOGICAL EXPERIENCE RECORD

- Dates** : From Oct. 2016 till now
- Employer** : BECHTEL OG&C
- Project** : BP West Nile Delta, Alexandria
- Job title** : Commissioning & Start-up & Mechanical Maintenance Engineer
- Job Description** :
 - Responsible for Pre-commissioning, Commissioning and Start up activities for greenfield facility, that will tie-in to a brownfield facility that will be refurbished, modified and preserved ready for operations.
 - Responsible for carrying out all rotating Equipment activities during normal operation and in parallel to plant construction activities shall be involved in the construction, commissioning and start-up in collaboration with Preservation team.
 - Ensure that all new and existing rotating equipment installations and maintenance activities are completed in accordance with applicable standards.
 - Review Work Authorization requests, ensure that all work covered by the WA is complete and that the affected equipment can safely be returned to operation.
 - Perform required re-testing when work is completed.
 - Define, manage and review equipment maintenance strategies. Develop maintenance procedures to support these strategies. Provide technical assistance and troubleshooting support for all equipment.
 - Confirm that the commissioning cleanliness strategy for pipelines, Heat Exchangers, Vessels and equipment are applied before the preservation process.
 - Plan, conduct and coordinate detailed phases of startup, operations, or maintenance for a project, including reviews of designs for plant operability and safety and jobsite pre-commissioning and start-up assignments as directed.
 - Coordinate start-up between project engineering, construction, clients, and vendors.
 - Major Inspection for Gas Compressor GE. Gear box, Bearings, Dry Gas Seal and bundle.

Dates : From Dec. 2010 till Oct. 2016
Employer : Mercedes-Benz Industrial J.V. in Egypt (EGA): to assemble vehicles
Job title : Mechanical Maintenance Section Head
Job Description :

- Apply TPM, Corrective, Preventive and Predictive Maintenance for machines / equipment in the Production line and Utilities area (Hoists – Pumps – Compressors – Boilers – Burners – Chemical tanks – Heat Exchangers – AHU – Hydraulic, Pneumatic systems and special filling machines).
- Use CMMS program.
- Manage drawing/documentation systems to defined performance levels.
- Manage stores inventory to restock and reorder spare parts Foreign & local.
- Prepare consolidated work lists for shutdown as well as preliminary estimates of manpower and material.
- Direct, instruct and supervise maintenance engineers and technicians.
- Prepare different projects visibility studies.
- Estimate the cost projects on the basis of labor charges, time, used material, tolls and other technical challenges.
- Define the project tasks as well as the requirements of resources.
- Connect with equipment suppliers and exchange information to find technical solution for problems.
- Perform successfully troubleshooting and diagnose breakdown problems to increase the efficiency for factory.
- Prepare internal audit according to DAIMLER procedure, beside shop floor management (5S implementation and continues improvement in shops).
- Be responsible for any required manufacturing work (factory workshop and outsourcing manufacturing work).

Dates : From May 2008 till Apr. 2010
Employer : BECHTEL OG&C
Project : Onshore Gas Development OGD III, HABSHAN - U.A.E
Job title : Senior Start-up Engineer
Job Description :

- Responsible for Pre-commissioning, Commissioning activities and turnover of start-up systems to the owner (GASCO):
 - Nitrogen generation and Air Compressor system (Air Products).
 - Steam Generation and Condensate system (Package Boilers).
 - Gas Turbine (GE).
 - Gas dehydration/NGL recovery unit.
 - Propane and Residue Gas Compressors (GE & Elliott Ebara).
 - Fire Fighting system.
- Apply all HSE requirements (Safety awareness license from GASCO - Safety training from Bechtel).
- Review work permits (LOTO, coordinate between Safety, Mechanical and E&I departments).
- Review system design manuals and operation manuals to apply the optimum condition for system start-up and operation.
- Review drawings, documents, data sheets and piping isometric.
- Inspect and test procedures (Static & Rotating equipment).
- Coordinate contractor/subcontractor work scopes.

- Coordinate with E&I Discipline Engineers.
- Be responsible for preparation of material requisitions.
- Schedule and prioritize the activities to accomplish assigned tasks.
- Check the progress of the activities carried out by the vendors and contractors.
- Prepare the reports based on the work done during the commissioning activity and submit them to the commissioning manager.
- Issue procedures for different systems (Loading Refrigerant, Desiccant, Perlite, unloading Liquid Nitrogen, power flushing, steam blow, High Pressure leak test and Dry out for different systems).

- Dates** : From Dec. 2004 till May 2008
- Employer** : Cairo Electricity Production Company (CEPC)
- Project** : North Cairo Power Station (Module 2) – Combined Cycle
(2x250MW frame 9f gas turbine (GE) controlled by Mark VI, steam turbine (Alstom), HRSG (NEM), electrical systems up to 220KV and three Gas Compressors)
- Job title** : Commissioning & Shift Engineer
- Job Description** :
- Attend the installation, commissioning and the start-up till the end of the project working with GE, NEM and ALSTOM teams during the commissioning till the reliability test.
 - Use DCS to control the whole plant.
 - Isolate different systems electrically and mechanically.
 - Start-up and shut down the turbine safely.
- Field of experience** :
- Commissioning and Maintenance for large projects and sites.
 - Power Stations, Oil & Gas and Industrial Engineering.
 - Bechtel Egypt (Oil & Gas – BP Project).
 - Bechtel UAE (Oil & Gas – GASCO Project).
 - Mercedes-Benz Egypt (Production line).
 - Cairo North Power Station (Combined Cycle).
 - Process Improvement Projects, Six Sigma achievements and Lessons Learned.
 - PMP, Certified Project Manager, PMI (License Jul. 2017).