

101580-MEC-1CMY-E-2005

Mechanical Maintenance Engineer

Holds a B. Sc. in Mechanical Power Engineering and a Postgraduate Diploma in Thermal Power Stations. Has about 16 years hands-on experience in installation, inspection, maintenance and training of Rotating and Static Equipment; possess in-depth understanding of Reliability Centered Maintenance (RCM), Root Cause Failure Analysis (RCFA) and Condition Monitoring Techniques.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 04/06/1983
Gender : Male
Marital Status : Married

EDUCATION

- : B. Sc. in Mechanical Power Engineering, Alexandria University, 2005
- : Thermal Power Stations Postgraduate Diploma in Mechanical Power Engineering, Alexandria University, 2010

LANGUAGES

Arabic : Native Language
English : Very Good

COMPUTER SKILLS

- : Windows, MS Office, Internet
- : AutoCAD

TRAINING COURSES AND CERTIFICATIONS

- : Gas Turbine Operation Training including maintenance issues at the Training Center of MISUBISHI HEAVY INDUSTRIES Ltd. TAKASAGO MACHINERY WORKS in Japan, with respect to the combined cycle 750MW project (Jun./Jul. 2008).
- : Operation Training including maintenance issues of Generator and Auxiliaries at MITSUBISHI ELECTRIC CORPORATION ENERGY SYSTEMS CENTER in Japan, with respect to the combined cycle 750MW project (Jul. 2008).
- : Mitsubishi Gas Turbine M701F Systems Overview, P&ID, Concepts of Equipments Maintenance and Operation, in CAIRO NORTH POWER STATION (Feb. 2009).
- : Air System & Oil Free Screw Air Compressors & Regenerative Desiccant Air Dryers, by COMP AIR Co. under supervision from TOSHIBA PLANT SYSTEMS & SERVICES CORPORAION COMPANY (TPSC) (Jan. 2010).

- : CW-Hydro Horizontal Centrifugal Pumps & Vertical Sump Pumps, by FLOWTECH Co. under supervision from TPSC (Jan. 2010).
- : Fuel Oil Treatment system, by GEA Co. under supervision from TPSC (Sep. 2010).
- : Fire Protection System, by ZENER Co. under supervision from TPSC (Feb. 2010).
- : Pumps On-shore Training, by EBARA CORPORATION (Pumps Contractor for Sidi Krir Power Station 750MW Combined Cycle Project) (May 2010 & Dec. 2010), including the following:
 - HP/IP Feed Water Pumps.
 - Condensate Water Pumps.
 - Circulating Water Pumps.
 - LP Feed Water Pumps.
 - Service Water Pumps.
- : Test Performance and Commissioning for Combined Cycle, in Abu Qir Training Center by WEST DELTA ELECTRICITY PRODUCTION COMPANY (WDEP CO.) (Sep. 2007).
- : Operation of Combined Cycle Power Plant, in Abu Qir Training Center by WDEP Co. (Apr./May 2007).
- : Abnormal Operation and Troubleshooting for Combined Cycle, in Abu Qir Training Center by WDEP Co. (Aug. 2007).
- : Seminar about Basics of Lubricants and Applications, by SHELL INDUSTRIAL LUBRICANTS COMPANY (Jun. 2008).
- : Balancing and Vibration for Rotary Equipments, in Abu Qir Training Center by WDEP Co. (Jul. 2007).
- : Maintenance Management, in Engineers Society, Alexandria (May 2006).
- : Train the Trainer in Marriott Hotel by SAUDI ELECTRICITY COMPANY (SCECO CO.) (Aug. 2013).
- : Maintenance Planning & Scheduling by PROFESSIONALS FOR HUMAN RESOURCES DEVELOPMENT CO. (Nov. 2015).
- : IELTS Exam Preparation in Jeddah Training Institute by SCECO CO. (from Apr. till Jun. 2015).
- : Emergency Evacuation by SCECO CO. (May 2015).
- : First Aid by SAUDI RED CRESCENT AUTHORITY (Apr. 2017).
- : Visual Inspection Testing (VT) Level II, in Science and Technology Engineering Center (STE), Alexandria (Jul./Aug. 2012).
- : ICDL
- : Advanced Assessor Certificate.
- : Intermediate Assessor Certificate.
- : Introduction to Assessment Certificate.

CHRONOLOGICAL EXPERIENCE RECORD

- Dates** : From Dec. 2020 till Mar. 2021
- Employer** : Doosan Power Systems
- Job title** : Mechanical Maintenance Engineer
- Job Description** :
 - Managing major overhauling of Doosan Steam Turbine 270MW and its Auxiliaries (MARAFIQ Power Plant).
 - Attending progress meetings and make sure that site activities are in line with the Major Overhaul schedule.

- Monitoring disassemble, inspection, repair and reassemble of Main Stop Valves, Control Valves, Combined Reheat Valves, HP Bypass Valve and Lp Bypass Valves.
- Front leading cleaning, visual inspection of Water Box, Rubber Liner, Debris Filter & Hot Well in the condenser.
- Performing the hydro test and plug the tubes of LP/HP heaters as per inspection result.
- Preparing Fact Finding Reports and Final Inspection Reports.

Dates : From Apr. 2018 till Oct. 2020

Employer : Interserve Learning & Employment

Job title : Vocational Instructor at ITQAN Institute, KSA

Job Description :

- Drove strategic Training & People Development function; worked as Trainer for Inspectors employed by other companies.
- Rolled out effective training programs by proposing new ideas based on requirements.
- Provided training in the field of mechanical inspection and ensured that trainees have got the requisite knowledge and skills to perform the inspection of the rotating and static equipment safely.
- Conducted On-job Training for the trainees and explained the inspection & maintenance procedure of Rotating and Static equipment.
- Designed & implemented practices in education including interactive & innovative training.
- Encouraged learning among trainees using interactive discussions, assessment tools, creative lesson planning, individualizing education plans and 'hands-on' approaches to help students learn the subjects.
- Implemented instructional activities that contribute to a climate where students are actively engaged in meaningful learning experiences.
- Organized technical training particularly in workshop for inspection on the Industrial Unit for inspection.
- Performed assessments of the Mechanical Inspectors on the Industrial Unit for inspection.

Dates : From Jun. 2013 till Jun. 2017

Employer : Saudi Electricity Company

Job title : Mechanical Instructor

Job Description :

- Led the training program for the trainees in the field of power plant mechanical maintenance and ensured that trainees have got the requisite knowledge and skills to perform their jobs competently and safely.
- Conducted technical training particularly in workshop for maintenance of the Steam Turbine, Gas Turbine, Pumps, Compressors, Fans, Blowers, Valves and Heat Exchangers.
- Organized training courses on installation, maintenance and repair of rotating and static equipment as required.
- Conducted On-Job Training for the trainees and explained the procedure of Steam Power Plant and Gas Power Plant turnaround.
- Performed assessments of the Mechanical Technicians on the Steam Power Plant Simulator and Mechanical Training Skid.
- Prepared purchase orders of requested items for training in accordance

with selected suppliers, price and technical specifications.

- Examined the trainees based on the training program to gauge the trainee's delivery understanding and compiled report to Senior Instructor.
- Worked with the Senior Instructor, maintained the Internal Verification and Quality Assurance systems to ensure that the quality of the programs is maintained.
- Active member of the Occupational Safety and Health Management System team in Jeddah Training Institute and received four stars in the final audit.

Dates : From Oct. 2009 till Jun. 2013

Employer : West Delta Electricity Production Company (WDEP Co.)

Project : Sidi Krir Combined Cycle Power Plant 750MW

Job title : Senior Mechanical Maintenance Engineer

Job Description :

- Prepared all types of preventive and corrective maintenance for Gas Turbines and its Auxiliaries.
- Led Mitsubishi Gas Turbine M701F (2 units x 250MW) combustor inspection under supervision of MHI representative. Acted as Turbine Team Supervisor and managed replacing of Main Fuel Nozzle & Pilot Nozzle (20 Pcs), Combustor Basket (20 Pcs), Transition Piece (20 Pcs), Transition Seal (20 Sets), Igniters & Flame Detectors, Test Fuel Nozzles and Clean Fuel Nozzles, Inspect Turbine Outlet and Inspect Compressor Inlet.
- Performed Mitsubishi Gas Turbine M701F (2 units x 250MW) Turbine inspection under supervision of MHI representative. Acted as Turbine Team Supervisor and supervised the replacing of Main Fuel Nozzles & Pilot Nozzles, Combustor Baskets, Transition Pieces, Transition Seals, Turbine Row (1, 2, 3 and 4) Blades, Turbine Row (1 & 2) Vanes, Turbine Row (1 & 2) Ring Segments, Igniters & flame detectors, Test Fuel Nozzles, Clean Fuel Nozzles, Inspect Turbine Outlet and Inspect Compressor Inlet.
- Managed all types of preventive and corrective maintenance for Steam Turbine and its Auxiliaries.
- Conducted ANSALDO Steam Turbine minor overhaul (steam turbine bearings, generator bearings, HP turbine valves and IP turbine valves).
- Coordinated plant shutdown procedure / activities (action plan, manpower, tools, critical path activities, shutdown items handling, mechanical activities risk assessments).
- Managed mechanical maintenance works as set through the Maintenance Planning Sheet (MPS) and as other priorities (Preventive and Corrective maintenance) under supervision of TOSHIBA warranty supervisors for Air Compressors, Regenerative Desiccant Air Dryers, Horizontal Pumps, Service Water Pumps, Circulating Water Pumps, Feed Water Pumps, Condensate Water Pumps, Vertical Sump Pumps, Fuel Oil Treatment Skid, Traveling water Screens, Self-Cleaning Strainers, Fire Fighting System, Diesel Generator, Heat Exchangers, Various types of Valves and Trash Rakes.

Dates : From Apr. 2008 till Oct. 2009

Employer : West Delta Electricity Production Company (WDEPC)

Project : Sidi Krir Combined Cycle Power Plant 750MW

Job title : Mechanical Construction Engineer
Job Description :

- Verified MRR (Material Receiving Reports) after checking the packing list and the mechanical equipment specification & condition to accept them.
- Analyzed data such as design change proposal (change notices & operation and maintenance manuals).
- Coordinated with P&ID, Isometric drawings, Arrangement drawings, Equipment Layout drawings and Structural Support drawings.
- Installed ANSALDO steam turbine and its auxiliaries.
- Monitored mechanical construction work done by TOSHIBA and compare the contract specifications with the field activities.
- Administered the installation of all piping and equipment as Horizontal & Vertical Pumps, Compressors, Air Dryers, Fuel Oil Treatment Skid, Emergency Diesel Generator, Self-Cleaning Strainers and Heat Exchangers.
- Inspected all systems' piping prior to on both hydrostatic and pneumatic tests.
- Modified the recommended spare parts list prepared by the consultant related to the maintenance requirement.

Dates : From May 2006 till Apr. 2008
Employer : West Delta Electricity Production Company (WDEPC)
Project : Sidi Krir Steam Power Plant
Job title : Mechanical Maintenance Engineer
for Steam Turbines Siemens 2x320MW and its Auxiliaries
Job Description :

- Supervised preventive and corrective maintenance for Steam Turbine and its Auxiliaries.
- Performed minor overhaul for Siemens Steam Turbine unit 1.
- Led the maintenance of Pumps, Compressors, Air Blowers and Traveling Water Screens, Heat Exchangers, Regenerative Desiccant Air Dryers and Various types of Valves.
- Supervised overhaul of Centrifugal Pumps, Multistage Centrifugal Air Compressors & Reciprocating Compressors.

Dates : From Nov. 2005 till Apr. 2006
Employer : Egyptian Navigation Company (E.N.C.)
Job title : Mechanical Maintenance Engineer for ships
Job Description :

- Supervise the manufacture of work pieces required for ships repair in the workshop.
- Lead and supervise group of technicians to execute the required repairing for ships.

Special Studies:

I have a PATENT entitled "NEW DESIGN FOR FLOATING WEIR SKIMMER" was issued on Feb. 24, 2010 from Egyptian Patent Office, Academy of Scientific Research & Technology, Ministry of State for Scientific Research, Arab Republic of Egypt and it has been published in PATENT GAZETTE (Sep. 2009).