103582-MEC-1CMOS-E-2010
Operation Engineer / Shift Leader Engineer

Holds a B. Sc. in Mechanical Power Engineering and has over 7 years hands-on experience working in construction, maintenance, operation and commissioning.

PERSONAL DATA

Nationality	:	Egyptian
Gender	:	Male
Residence	:	Ismailia

EDUCATION

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

LANGUAGES

Arabic	:	Native Language
English	:	Excellent
Italian	:	Basics
German	:	Basics

COMPUTER SKILLS

: Windows, MS Office (Word, Excel, Access, Power Point), Internet
: Mark 6 control & simulation system for 9e GE gas turbine modules: editing values, forcing signals, fault analysis & diagnosis
: Programming: C++ & PYTHON
: Matlab: CFD mathematical analysis for thermodynamics and fluid dynamics
: Mathematica & Geogebra: solving ODE's & PDE's concerning mechanical design in fluid dynamics, heat flow, gas dynamics
: Automation Studio: (PNEUMATIC, HYDRAULIC), ZELIO (PLC), G CODE (CNC)
: Cad programs: AutoCAD 2D & 3D (since 2007), Solid Edge (since 2008), Solid Works, Inventor (2009), Catia (2013)

TRAINING COURSES AND CERTIFICATIONS

: AC BOILERS (Gallarate, Italy): HRSG DESIGN & OPERATION (conceptual design, process, control valves, pressure parts, I&C) (Sep./Oct. 2016).
: GE (Belfort, France): gas turbine frame 9E DESIGN & OPERATION (materials tests, design, operation, protection, control, combustion chambers design, DLN tests) (Oct./Nov. 2015).
: Mechanical Vibrations (FEC, Egypt): DFT analysis, frequency domain patterns, shaft alignment & balance (Dec. 2014).

: Pump selection operation and maintenance (FEC, Egypt): centrifugal pumps, axial pumps, correction curves (Jan. 2013).
: Modern Manufacturing Systems (STCE): hydraulic and pneumatic circuits, PLC and CNC (Jul./Aug. 2012).
: English: IELTS (Technical).

CHRONOLOGICAL EXPERIENCE RECORD

Dates : From Feb. 2011 till May 2018
Employer : East Delta Electricity Production Company
Job title : Operation Engineer / Shift Leader Engineer
Job Description :

- Over 7 years experience in electricity generation power plants for both simple and combined cycle. Worked in construction, commissioning, performance and reliability tests for 1 year (6 months for gas turbine and 6 months for HRSG, ACC, steam turbine). And finally specialized in operation for 6 years.
- Operation:
  - Overall responsibility of power plant (Shift Leader for 4 years).
  - My ultimate goal is safe operation for both personnel and equipments with maximum possible efficiency of the power plant.
  - Carefully monitoring critical pressure and temperature parts inside the GT, HRSG, STG during operation.
  - Keeping the values under alarm limits.
  - Maintaining the load schedule provided by the national dispatch center.
  - Avoiding unnecessary tripping by making right decisions.
  - Immediate action (Fault diagnosis & trouble shooting & reporting of any unusual behavior of the unit during operation including combustion troubles in C.Cs, leaking of steam or water issues, auxiliary systems failure like motors of fans, compressors, pumps, valves or piping failure …etc.
  - Handing out permits to maintenance personnel for carrying out major/minor maintenance activities, coordinating with maintenance personnel to ensure the work is done on time and the permit gets closed.
  - Minimizing plant brake down time.
  - Organizing and motivating operation personnel.
- Projects and Maintenance:
  - Major Inspection (MI), Hot Gas Path inspection (HGPI), Combustion Champers inspections (CI).
  - Installation, commissioning, Overhauling, Fault diagnosis & trouble shooting exclusively in all mechanical maintenance works related to Engine based Power plants, All Rotating & Static Equipment, Install, align, dismantling, examine and re-assembling, adjust and repair or replace of defective parts of mechanical equipment, such as Large Gear & centrifugal pumps, Compressors, Turbochargers, Heat exchangers, HFO & lube oil separators & all types of Valves.
  - All firefighting systems, including machinery protection transformers (water), auxiliary compartment and turbine compartment (co2), solar tanks (chemical powder), and buildings protection. HVAC and different types of air conditioning systems.