

**104128-MEC-1OS-E-2009**  
**Steam Turbine Operation & Start-up Engineer**

Holds a B. Sc. in Mechanical Power Engineering and a Diploma in Engineering Power Plant. Has over 11 years hands-on experience working in operation, commissioning and start-up at Power Plants.

## PERSONAL DATA

Nationality : Egyptian  
Birth Date : 12/07/1986  
Gender : Male  
Marital Status : Married  
Residence : Gharbia

## EDUCATION

: B. Sc. in Mechanical Power Engineering, Mansoura University, 2009  
: Diploma in Engineering Power Plant, Mansoura University, 2013

## LANGUAGES

Arabic : Native Language  
English : Good

## COMPUTER SKILLS

: Windows, MS Office, Internet  
: AutoCAD 2D

## TRAINING COURSES AND CERTIFICATIONS

: MS9001FA+e Speed-Tronic Mark VIe Gas Turbine Operations On-Shore Training by GE Co. in Banha Training Center (Apr. 2013).  
: MS9001FA+e Speed-Tronic Mark VIe Gas Turbine Operation & Maintenance for Mechanical Personal On-Shore Training by GE Co. in Banha Training Center (Apr./May 2013).  
: Steam Turbine Generator & Condenser Off-Shore Training Course by ANSALDO ENERGIA Co. in Ansaldo Training School in Genova – Italy (Oct./Nov. 2013).  
: Certificate in Harmony & PGP Base – Configuration by ABB Co. in Genova – Italy (Nov. 2013).  
: Training Certificate in Scada for Generator Protection & Synchronizing System by SEAT in Ansaldo Training School in Genova – Italy.  
: DCS Centum VP Operation Off-Shore Training by YOKOGAWA Co. in Yokogawa Middle East & Africa in Bahrain (Jul. 2014).

- : HP/IP – LP Boiler Feed Pumps and Condensate Extraction Pumps On-Shore Training by Termomeccanica Pompe Co. in Banha Training Center (Jun. 2015).

## CHRONOLOGICAL EXPERIENCE RECORD

- Dates** : From Dec. 2020 till Dec. 2021
- Employer** : Doosan
- Project** : Cairo West Supercritical 670MW Thermal Power Plant:
- Supercritical Boiler.
  - One Steam Turbine 670MW (HP, IP and LP) with 8 Feed Water Heater Extractions.
  - DCS Siemens SPPA-T3000.
- Job title** : 670MW Steam Turbine Operation & Start-up Engineer
- Job Description** : Activities during commissioning before normal operation:
- Reviewing DCS SPPA-T3000 Logic and support I&C Engineers to modify it as per O&M Philosophy.
  - Steam turbine Auxiliaries: Lube Oil flushing and filling, generator purge by air and CO2 and pressurize by Hydrogen.
  - Steam turbine 1st Rolling to full speed no load, 1st synchronization, Reliability Test, Performance Test, Load runback Test, full load rejection and normal operation.
  - Reporting to mechanical & operation managers.

- Dates** : From Jan. 2018 till Oct. 2020
- Employer** : [EGYPTROL](http://www.egyptrol.com), Al Toukhi Subcontractor
- Project** : Conversion HAIL 2 Power Plant from simple cycle to combined cycle:
- 4x70MW gas turbine.
  - 4 x (Amec foster wheeler Vertical Flue Gases) HRSGs (Hp & Lp) Drums.
  - One Siemens steam turbine (SST800) 160MW (Hp & Lp) and Air-Cooled Condenser.
  - Dcs Siemens SPPA-T3000.
  - Medium voltage Switch Gear (4.16KV) and low voltage motor center (480V).
  - STG STEP UP TRANSFORMER 15.75/360KV.
  - BOP.
- Job Description** : • Mechanical Warranty Engineer (from Aug. 2018 till Oct. 2020):
- Coordination with vendors for fulfilling the contractual obligations toward the project, managed reducing the unplanned outages time.
  - Accomplished closing 100% of the defect reports issued by the customer during the one year contractual normal warranty period.
  - Provided technical support for the customer to ensure the plant reliable and efficient operation.
  - Receive any spare parts and hand over to client.
  - Diagnosed and resolved plant systems operating problems and advise the client with proper operation methods.
  - Coordinate between supplier and back office during repair the equipment in the site and send report to back office.
  - Issue warranty claim and send it to supplier and follow it until fix.

- Attending warranty meeting with client and coordinate between client and back office.
- Fix the most of problem and close punch item.
- Mechanical Commissioning & Start-up Engineer (from Jan. 2018 till Aug. 2018) - Activities during commissioning before normal operation:
  - BOP Mechanical commissioning "Condensate sys, Feed water Sys, Demin Water sys and instrument air sys": (Hydrostatic test, air lines blowing, pumps Heat run test, Motors solo run test, vibration detecting, temperature detecting).
  - HRSG's commissioning: Preparing Punch List, Hydrostatic test, chemical cleaning, Steam line blowing, ACC cleaning and bypass operation.
  - Steam turbine Auxiliaries: Lube Oil flushing and filling.
  - Steam turbine 1st Rolling to full speed no load, 1st synchronization, Reliability Test, Performance Test, Load runback Test, full load rejection and normal operation.
  - Reporting to mechanical & operation managers.

<b>Dates</b>	:	From Dec. 2011 till Dec. 2017
<b>Employer</b>	:	MDEPC
<b>Project</b>	:	Banha Combined Cycle Power Station 750MW: <ul style="list-style-type: none"> <li>• Two GE CTG x 250MW Type MS9001FA+e (Mark VIe Control).</li> <li>• Two Horizontal Ansaldo Caldaie HRSGs.</li> <li>• One Ansaldo Energia STG 250MW (HP, IP, LP).</li> <li>• 220KV Switch Yard.</li> <li>• Medium and low Switch Gear.</li> <li>• Module auxiliaries.</li> </ul>
<b>Job titles</b>	:	<ul style="list-style-type: none"> <li>• DCS Shift Charge Engineer (from 2015 till 2017)</li> <li>• Control Room Operator (from 2013 till 2015)</li> <li>• Operation Commissioning during Installation and Commissioning (from 2011 till 2013)</li> </ul>
<b>Job Description</b>	:	<ul style="list-style-type: none"> <li>• Responsible for operating a plant consists of:           <ul style="list-style-type: none"> <li>- Two GE (gas turbines) CTG x 250MW Type MS9001FA+e (Mark VIe Control).</li> <li>- Two Horizontal flue gases Ansaldo Caldaie HRSGs.</li> <li>- One Ansaldo Energia (steam turbine) STG 279MW (HP, IP, LP) and Water-Cooled Condenser.</li> <li>- DCS YOKOGAWA Centum VP.</li> <li>- 220KV Switch Yard.</li> <li>- Medium voltage (6.3KV) Switch Gear and low voltage (400V) motor center.</li> <li>- Module auxiliaries (BOP).</li> </ul> </li> <li>• Activities during commissioning &amp; normal operation:           <ul style="list-style-type: none"> <li>- Gas turbines operation when the plant still simple cycle during installation HRSG's and steam turbine.</li> <li>- HRSG's commissioning: Steam line blowing and bypass operation.</li> <li>- Steam turbine 1st Rolling to full speed no load, 1st synchronization, full load rejection and normal operation.</li> <li>- Normal operation.</li> </ul> </li> </ul>

**Dates** : From Nov. 2010 till Dec. 2011  
**Project** : Talkha GE Combined Cycle Power Station 300MW:

- 8x25MW GE Gas Turbine.
- 8x12.5MW HRSG.
- 2x50MW Steam Turbine.
- Six transformers 15.75/220KV.

**Job title** : Control Room Operation Engineer  
**Job Description** : Reporting to shift charge engineer.