

**100093-MEC-4CMQVYZ-E-2012**  
**Static Equipment Engineer (QA/QC)**

Holds a B. Sc. in Mechanical Power Engineering and has over 10 years experience working in construction, maintenance, piping and static equipment.

## PERSONAL DATA

Nationality : Egyptian  
Gender : Male  
Residence : Gharbia

## EDUCATION

: B. Sc. in Mechanical Power Engineering, Tanta University, 2012

## LANGUAGES

Arabic : Native Language  
English : Excellent

## COMPUTER SKILLS

: Windows, MS Office (Word, Excel, Power Point), Internet  
: AutoCAD 2D & Plant 3D  
: CAESAR II (piping stress analysis)  
: MS Project  
: Navisworks

## TRAINING COURSES AND CERTIFICATIONS

: Preparation course for PMP certification (40 Hours), Engineering Syndicate.  
: Basics of ASME codes (ASME II & ASME IX), KIT for Engineering Innovation.  
: ASME VIII DIV 1 fundamentals, Inspection Academy.  
: Heat Exchangers Fundamentals, Inspection Academy.  
: Preparation Course for API 570 Inspector Certificate, Inspection Academy.  
: Flange Management Fundamentals (ASME PCC-1), APEX Dubai.  
: Flange Management Supervisor / Inspector (according to ASME PCC-1), HEX TECHNOLOGY.  
: Repair of Pressure Equipment and Piping (ASME PCC-2), Inspection Academy.  
: Valves operation and maintenance, RES Global.  
: API RP 571 (Damage mechanisms affecting fixed equipment in refinery), Inspection Academy.

- : Process piping code ASME B31.3 interpretation and application, Torab for engineering & consultancy.
- : API 650 STD (welded oil storage tanks), Inspection Academy.
- : Lifting and rigging operation planning & inspection, Techno-serve (approved from EES).
- : NDT level II VT, Torab for engineering & consultancy.
- : Basic Piping stress analysis by CAESAR II, AUC.
- : AutoCAD 2D, Engineering Syndicate.
- : Work safety control system (WSCS), Methanex (internal training).
- : Basics of cost estimation for construction projects, Methanex (internal training).
- : Computerized Maintenance Management System (CMMS) MAXIMO, Methanex (internal training).
- : Programmable logic controllers (PLC) level 1, Jelecom for engineering training.

## CHRONOLOGICAL EXPERIENCE RECORD

- Dates** : From May 2022 till now
- Employer** : Egyptian Projects Operation and Maintenance (EPROM)
- Project** : ERC Refinery Plant
- Job title** : Static Equipment Engineer (QA/QC)
- Job Description** :
- Supervise quality control / assurance activities related to Static Equipment and Piping maintenance, inspection, repair and modifications / revamping.
  - Supervise welding and fabrication activities for static equipment and piping in maintenance / repair and new projects in the plant.
  - Prepare welding map, welding procedure specification (WPS), Inspection and Test Plan (ITP).
  - Follow up NDT (VT-RT-UT-MT-PT) activities that required for effective equipment inspection.
  - Follow up plant modifications (MOCs) execution and prepare inspection test plans (ITP) and quality management plans according to relevant industry standards and recommended practices.
  - Follow up static equipment and piping repair activities as per recommendations and repair reports.
  - Support material ordering and receiving process by technically evaluate spare parts quotations and tenders, review material test certificates according to manufacturing standards, examine material upon receiving and approve the acceptance reports.
  - Supervise flange management and bolting activities in ERC Refinery Plant and ensure that static team and contractors following local procedure and relevant industry practice.
  - Select and inspect suitable tightening equipment either Torque or Tension, review calibration certificates, ensure that craft competency is fit for the required job.
  - Follow ASME PCC-1 and other recommended practice for bolted flanged joints assembly to achieve the required joint integrity for zero leaking joints.

- Follow work flow procedure through CMMS SAP.
- Achievements:
  - Improve flange management system throw updating the procedure and apply tagging system.
  - Prepare flange management work packages and equipment boxing up documents for TAR 2023.
  - DCU unit shutdown 2023 follow up piping modifications and heat exchangers overhauling.

**Dates** : From Nov. 2019 till May 2022

**Employer** : Egyptian Maintenance Company (SAN MISR)

**Project** : ERC Refinery Plant

**Job title** : Static Equipment Area Engineer

**Job Description** :

- Perform/ supervise all maintenance activities and overhaul for all plant Static equipment & piping systems during normal operation and Turnaround / Shutdowns according to maintenance work instruction (MWI) for all discipline equipment according to Equipment Original Manufacture (EOM) recommendation and maintenance best practices.
- Implement maintenance activities (preventive, corrective, predictive, Inspection, and Performance Monitoring) – safely and efficiently to meet company and maintenance department targets and KPI's and emphasize effective resources consumption/utilization to secure optimum Maintenance cost.
- Ensure spares are correctly described, ordered, received, stored, and preserved in accordance to manufacturing recommendation to be fit for use upon need.
- Supervise the site man power staff Technicians and Foremen in all discipline equipment Day to Day Activities to accomplish maintenance activities safely, timely, and efficiently.
- Ensure that all new and existing Static equipment installations and maintenance activities are completed in accordance with applicable standards.
- Achievements:
  - Static Area Engineer during Hydrocracking unit (HCU) shutdown – Feb. 2021.
  - Static Area Supervisor during Refinery Turnaround – Jun. 2021.
  - Complete overhaul for R.O & UF units including membranes and defected piping replacement.
  - Overhauling reactor feed / effluent heat exchangers in DHT unit shutdown – Mar. 2022.

**Dates** : From Jan. 2018 till Nov. 2019

**Employer** : E-Methanex (EGYPTIAN METHANEX METHANOL CO.)

**Project** : Methanol Production Plant

**Job title** : Mechanical Project Engineer

**Job Description** :

- Supervise the CAPEX projects from concept selection phase to commissioning & handover according to Management of Change procedure and METHANEX Projects Standard (MPS) from conceptual phase to completion phase.
- Lead a team of junior engineers and contractors to execute the projects

according to specifications and quality standards using project management skills (Plan/Track/Deliver).

- Liaise with concept engineers in the Front-End design stages and ensure smooth transition to and through detail engineering phase then execution phase is achieved.
- Planning & scheduling of assigned projects, including the yearly & monthly KPIs.
- Managing contracts, by acting as Company representative during project execution.
- Review engineering drawings (P&ID, layout, isometrics, equipment erection drawings, plot plans.
- Prepare B.O.Q and M.T.O and Order field material and receive it according to specifications.
- Assess with procurement team in tender estimation and evaluation.
- Study technical offers and contracts with subcontractors and suppliers and assess in procurement wises.
- Ensuring sufficient contractor resources to execute the projects according to the KPIs.
- Ensure that project and project expenditure plans are set-up and updated regularly.
- Prepare scope of work for contractors, tender document, assess in contractor selection and evaluation.
- Implement modifications in co-operation with the Project working group, line management and involved departments as per approved Engineering Work Package taking into account, safety and engineering / constructing aspects, standards and regulations.
- Transfer new installation to the Plant Asset Registry System and ensure as built documentation, drawings, close out reports, operating and maintenance manuals are delivered to the relevant parties.
- Follow work flow procedure through CMMS MAXIMO, and documentation management with MERIDIAN platforms.
- Achievements:
  - Supervise a complete R.O unit project from conceptual phase till commissioning and start-up phase.
  - Supervise all in-service plant modifications and Asset Revamping resulting from plant change requests.
  - Replacing methanol vapor recovery loading arm and its piping system.
  - Piping modification works during boiler package shutdown.
  - Installing new heat exchangers in air separation unit with their piping system.
  - Installing fire detection system (detectors, junction boxes, conduits, cable trays, laying cables).
  - Re-route methanol drain system underground to the process drain tank.

**Dates** : From Oct. 2015 till Jan. 2018  
**Employer** : Evergrow for Fertilizers and Chemical Industries  
**Job title** : Mechanical Project Engineer

- Job Description** :
- Oversee and direct new extensions including new plants construction projects from conception to completion within approved budget and schedule.
  - Supervise all installation works from initiation till commissioning according to schedule and specifications.
  - Manage vendor and sub-contractor's contracts and scope of work according to project specification.
  - Lead various project disciplines (Mechanical, Electrical, instrumentation, control system) during construction and commissioning phases.
  - Supervise mechanical construction activities like piping shop and field fabrication, erection, testing, storage tanks erection, installing process equipment works as per drawings, specifications and standards.
  - Lead execution crews (welders, fitters, riggers, scaffolders, helpers) and ensure their competency. Ensure that all the team working according to safety rules and quality standards.
  - Achievements:
    - Installing complete new Granulated Calcium Chloride (CaCl<sub>2</sub>) plant (212 MTD) - supervise equipment erection, metallic and non-metallic piping works from initiation till commissioning).
    - New chemical industries complex to produce (Phosphoric Acid, Calcium Chloride, Dicalcium Phosphate) - Perform project estimation, prepare scope of work for contractors, supervise equipment installation and storage tanks construction).
    - New Sulphuric Acid Production Plant (600 MTD) - Supervise piping works and installing absorption towers section.
    - New Potassium Sulphite Production Plant (30 Module) - Supervise equipment erection, metallic and non-metallic piping works.

**Dates** : From Apr. 2013 till Oct. 2015

**Employer** : Armed Forces (Vehicles Dept.)

**Project** : Military Service

**Job title** : Mechanical Maintenance Engineer (Reserve Officer)

- Job Description** :
- Working as a Workshop Leader and was responsible for vehicles maintenance planning and execution.
  - Manage spare parts warehouse and maintenance technical office.
  - Lead a team of technicians to perform PM and CM maintenance for heavy duty diesel vehicles.

- Field of experience** :
- Experienced in Process Plant Projects Construction and Maintenance in both Greenfield and Brownfield Projects, covering various activities, Ranging from Mechanical Construction, Erection, Fabrication and maintenance of Static Equipment, Piping, in Oil and Gas, Refinery, petrochemical and fertilizers process plants.
  - Intensive experience in process equipment like pressure vessels, heat exchangers, fired heaters, filters, drums, distillation columns, Boilers, Piping, Valves.
  - Professional experience in recognized organizations in Oil & Gas, Petrochemicals industry like Evergrow, EMC-San Misr, METHANEX, EPROM gave me a considerable experience in mechanical activities during plant construction, commissioning, start-up, normal operation

maintenance, plant shutdown / Turnaround.

- Supported by skills like Analysis, Design revision Skills, Project Management, maintenance and construction management, Technical Understanding, relevant industry standards (ASME-ASTM-API-TEMA), Documentation Skills, Safety Management, Supervision, CMMS (Computerized Maintenance Management System MAXIMO and SAP).
- Can utilize my experience in various positions as Project Engineer, Maintenance Engineer, QA/QC Engineer, Shutdown/Turnaround Engineer related to static equipment and piping works.