

Muhammad Haroon Azhar

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OBJECTIVE

To have a growth oriented and challenging career in power sector, where I can contribute my knowledge and skills to the organization and enhance my experience through continuous learning and teamwork.

ACADEMICS

- ◆ *2012-2016 University of Central Punjab, Lahore.*
B.Sc. Mechanical Engineering passed in 2016 (CGPA 2.85) /78%
- ◆ *2010-2012 Garrison Degree College, Lahore.*
F. Sc. (Pre-Engineering) passed in 2012 68%
- ◆ *2008-2010 Garrison Boys High School, Lahore.*
Matric (Science) passed in 2010 80%

EXPERIENCE

- ◆ QA/QC Engineer at Albario Engineering (Pvt) Ltd.



Department: QA/QC (June 1st 2018 - Till Present)

Subcontractor: Albario Engineering (Pvt) Ltd

Contractor: JEPCC 1

Main Contractor: China Machinery Engineering Cooperation (CMEC)

Client: National Engineering Services Pakistan (NESPAC)

Owner: Punjab Thermal Power Limited (PTPL)

Site: 1263 MW Punjab Power Plant Jhang, Pakistan.

JOB DESCRIPTION:

- Writing documentation related to inspections.
- Review of material test report.
- Verification of welding consumables as per WPS.
- Preparation/Review of ITP (inspection and testing plan) as per construction code.
- Preparation of Method Statement for Fabrication, Hydro testing (tanks) as per ITP and construction code **API 650**.
- Making RFI Logs and Welding Summary as per Client requirement.
- Viewing pipeline/piping routing, P&ID, Isometric Drawings.
- Witnessing rotary and static equipment alignment.
- Reviewing WPS /PQR / Welder Qualification records.
- Carrying out WQT as per **ASME SEC IX**.
- Performing of DPT,OPT, VBT on welding joints.
- Inspecting Joint Configuration of Fit up prior to weld as per WPS.
- Visual inspection of final weld profile.
- Control of welding material (Electrode, Filler Wire) backing of Low Hydrogen Electrode.

◆ QA/QC Engineer at Albario Engineering (Pvt) Ltd.



Department: QA/QC

(April 1st 2018 - May 31st 2018)

Contractor: Albario Engineering (Pvt) Ltd

Client: Maple Leaf Cement Factory, Iskandrabad

Owner: Maple Leaf Cement Factory, Iskandrabad

Consultant: FLSmidth

Site: Maple Leaf Cement Factory, Line III Project

JOB DESCRIPTION:

- Monitoring and administering the QA/QC Plan and ensuring incorporated materials on project are in compliance with the plans and specifications.
- Advise the managers at the site about the entire quality matters contract requirement by providing quality assurance to required standards.
- Assuring that the work is performed as required by the contract and meets or exceeds the required qualities.
- Assuring the acceptable quality of materials, processes, and workmanship in the project work.
- Issue materials receiving report for the delivered materials.
- Maintain standards of safety and comply with Company's Health, Safety and Environment Management System requirements.
- Follow and maintain Company standards of Quality in accordance with Company Quality System requirements.
- Maintaining the daily progress report of the entire project.
- Carrying out welding inspection of all kinds of structures, raw mill ducts cyclone, bins and steel stacks.
- Inspection of the fit-ups in the in-process stage with respect to visual, dimensional and orientation compliance as per the approved drawings and specifications.
- Visual inspection of sand blasting and DFT check as per requirement.
- Preparation of documentation after final inspection and maintaining the record.

- ◆ Trainee Engineer at Albario Engineering (Pvt) Ltd.



Department: QA/QC

(Oct 1st 2016 - March 31st 2018)

Subcontractor: Albario Engineering (Pvt) Ltd

Contractor: Power China-SEPCO III

Client: National Engineering Services Pakistan (NESPAK)

Owner: National Power Parks Management Company Pvt Ltd (NPPMCL)

Site: Haveli Bahadur Shah 1230 MW CCPP RLNG POWER PROJECT

JOB DESCRIPTION:

- Conducting and participation of pre-inspection meetings with client and formulating the ways of inspection at par with the approved inspection test plan
- Review of Inspection & Test Plan, Material verification, all stages of inspection, Dimensional inspection, Welding inspection, Final visual & painting inspection.
- **Maintenance:** Gained training and experience with pumps alignments.
- Administered the maintenance and improvement of fuel oil Centrifugal pumps.
- Ensured sufficient parts, on-hand materials and manpower were available to perform work effectively, during the forced outage of **GE 9 HA.01** Gas Turbine.
- Ensure quality maintenance practices are used to allow for safe and efficient repairs minimizing downtime.

- **Material And Welding Consumable Inspections:** Inspection of raw material as per procurement order (P.O.) and reviewing of mill test certificate (MTC) and related procurement documents for traceability and conformance to mechanical /Chemical properties in accordance with applicable Codes & standard like ASTM, ASME, AWS, API, etc. Inspection of filler rods, fluxes and shielding gases.
- **Fit-up Inspections:** Inspection of the fit-ups in the in-process stage with respect to visual, dimensional and orientation compliance as per the approved drawings and specifications
- Knowledge of reading and making inspection of First Angle (US Standard) and Third angle projection (International Standard) Drawings. Familiar with and hands on with most measuring/inspection tools, equipment's & instruments.
- **Welding Inspections:** Familiar with most of the Welding Processes like SMAW, GTAW for CS, SS, Mild steel, Cast iron etc.
- Control of welding process as per applicable WPS & PQR requirements. Monitoring and expedition of NDT requirements. Review of Weld Map, Welding Schedule.
- Carrying out welding inspection of all kinds of structures, with the special interest in Heavy steel structures, Storage tanks, pipe lines.
- Experienced with the preparation cum maintenance of welders performance qualification record and welders performance rating through welders and welding control log.

- **NDT (Non Destructive Testing):** Experienced in various Non-destructive inspection techniques in accordance with ASME Sec V like Visual inspection, Radiographic inspection, Radiographic film interpretation, Dye Penetrant inspection, etc.
- Interpretation of the Radiographs as per the approved procedures and the relevant international acceptance standards.

- **Blasting And Painting inspections:** Blasting and painting inspection of various Fabricated products by using magnetic dry film gauge and calibrating with the approved / standard DFT gauges during blasting, priming, mid and final coat stages and maintaining the records for all the stages of inspection.
- Blasting and Painting equipment conditions are monitored and Painting instrument working condition and calibration date keep in updating, Maintained relevant documents in quality manner at all times.
- Before blasting surface conditions were checked, after blasting surface preparation cleanness were checked according client requirements with international standard specifications.
- Paint materials self-life verified and every receiving material, Paints mixing ratio and pot life verified, before paint application paint system verified according to client requirements.
- Blasters and painters qualifications updated and preparing records up to date. Every blasters and painter workmanship keeps on maintained. Finally all Paint reports and documents prepared to submit QA Manager for approval, carrying out final inspection.

- **Documentation:** Preparation of different types of documentation, inspection formats. Preparation of final dossiers. Documentation control certificates & technical data as required by the customer such as NDT Reports, Final Inspection Reports, Calibration Records, and Welder Performance Certificates etc. (MTC, Visual/Dimensional Inspection Reports, Weld Map, WPS/PQR/WQRT, NDT Reports, and Painting Inspection Reports) Review of Final Dossiers prior to acceptance of the product. Entering basic order events into job control system. Ensuring that the expediting guidelines are followed in quality activities.

FINAL YEAR PROJECT

Design and Fabrication of Stress Analysis Apparatus for metal structures under Combined Loading.

It is difficult to determine stresses for a structure which has a complex shape or several loads applied to it. Failure of a structural member or machine parts can be caused by excessive normal stress or shear stress and, thus, it is important to determine the principal stress and maximum shear stress at the concerned point. Generalized Hook's law is applicable between stress and strain when an object has elastic deformation due to external force. An experimental method is used that measures strain and subsequently stresses are calculated. Among many experimental methods, usage of strain gauges is most convenient and relatively easy to use, therefore are widely applied.

SEMESTER PROJECTS

- ◆ RC Plane (2nd position in DBFC 10, GIKI).
- ◆ Hydraulic Crane (1st position in Hydraulic Crane competition in UCP Engineering Olympiad 2014).
- ◆ Indexing of Second Needle (3rd position in Exhibition held in UCP).
- ◆ Design of an efficient wind turbine (theoretical study).

COMPUTER SKILLS

- ◆ Microsoft Office: Word, Excel, Power Point
- ◆ Engineering Software's: Auto Cad, Creo Parametric, Solid Works, Ansys.
- ◆ Computer Languages: MATLAB

PERSONAL SKILLS

- ◆ Test and Validation.
- ◆ Believes in Practical involvement of project phases.
- ◆ Excellent communicator with Internal and External Customers.
- ◆ Preparing and Guiding team in preparation Metrics.
- ◆ Excellent analytical and problem solving skills.
- ◆ Ability to work independently as well as a team member.
- ◆ Capable to learn and apply new technologies.
- ◆ Ability to interface effectively with all levels of organization and external customers.
- ◆ Team building and leader ship.
- ◆ Demonstrate strong Interpersonal and presentation skills.
- ◆ Strong problem solving skills.

EXTRA-CURRICULAR

- ◆ Member of University Football Team.
- ◆ Member of SME (Society of Mechanical Engineers, UCP).
- ◆ Organized various events at University e.g. UCP Engineering Olympiad.
- ◆ Volunteer In Service at Falah Foundation.
- ◆ Member of ASME.(2012-2016)

LANGUAGES

- ◆ English (Fluent reading, writing and speaking).
- ◆ Urdu (Fluent reading, writing and speaking).
- ◆ Punjabi (Fluent speaking).
- ◆ Saraiki (Fluent speaking).

REFERENCE

- ◆ Will be provided on demand.