



# Ihtisham Hussain

QA/QC Mechanical Engineer

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Iqama Status : Transferable / Valid

## About

**Mechanical Quality Engineer** with over **5 years** of experience in ensuring compliance with standards and recognized guidelines across various mechanical systems, including firefighting, HVAC, welding inspections, piping, plumbing, structural work, and operation and maintenance. Proficient in international and local codes and specifications, including NFPA, ASME, SMACNA, ASHRAE, SBC, IPC, and NEOM standards.

Known for thorough inspections and commitment to maintaining the highest quality standards in all projects

## Education

- Bachelor of Science in Mechanical Engineering  
University of Engineering and Technology, Taxila Pakistan

### Projects Completed:

1. Design and Fabrication of Pilton Wheel Turbine with Reengineered blades and auxiliary wheel attachments.
2. Design and fabrication of Plastic Extrusion Machine

## Experience

- 1. Company** : Jordan Pioneer for metal Industry, KSA  
**Client** : Al - Fanar  
**Project** : NRC 19  
**Designation** : QA/QC Mechanical Inspector  
**Duration** : Nov 2023 to Date
- 2. Company** : Advance Foundation for Contracting (AFCO), Majmaa KSA  
**Client** : Royal Saudi Air Force  
**Project** : King Faisal Air Academy, Majma  
**Designation** : QA/QC Mechanical Inspector  
**Duration** : Jul 2022 to Oct 2023
- 3. Company** : Tiejun/SEPCO, Umluj, KSA  
**Client** : Red Sea - Marafiq  
**Designation** : QA/QC Mechanical Inspector  
**Duration** : Feb 2020 to Jun 2022

- 4. Company :** Heavy Mechanical Complex (HMC), Pak  
**Designation :** QA/QC Mechanical Inspector  
**Duration :** Sep 2019 to Jan 2020

## Professional Synopsis

- Review Quality Control Plans within remit; ensure that the tests, controls and inspections are carried out according to Quality Control Plans/Inspection Test Plans and that personnel have access to all required project documentation.
- Ensure that material and equipment are correctly received, stored, preserved and handled
- Ensure that materials are correctly identified and traceable, Ensure assessments and recordings of inspection, control and test results.
- Check the documents certifying the tests, controls and inspections carried out and ensure their orderly collection and management.
- Check procedures and equipment to be used in tests, controls and inspections and agrees on the applicable operating procedures with the organization in charge of the works.
- Ensure the availability of updated inspection, control and test reports, for the purpose of approvals of mechanically completed plant systems.
- Verify that the tests, controls and inspections are carried out by the contractors, check conformity with the Site Quality like FDT and asphalt core tests.
- Ensure the preparation of the QA/QC discipline dossier for final handover to the Client, verify the correct implementation and application of the database/spread sheet for Quality inspection and test report tracking and registration.
- Provide specialist support to the Quality Control Manager in relations with the Client and the responsible Authorities and report problems that cannot be directly resolved.

## Job Responsibilities

- Conducting quality inspections and audits to ensure compliance with standards, specifications, and regulations.
- Review of project-specific quality plan, inspection and test plans, checklists, method statements and assure their implementation.
- Control all non-conformance reports and ensure approved corrective actions are taken.
- Snagging De-snagging, punch list, closeout and handover process to client.
- Review and finalized drawings, material submittal, technical calculations and shop drawing as per international codes and project specification.
- Participating in pre-functional checks and inspections to verify that HVAC and Fire Fighting systems are installed correctly and ready for commissioning.
- Review Contract requirements and procedures witness stage inspection of Site activities as per approved ITP.
- Conducting internal pre-inspection meeting to involved personnel in different discipline to discuss inspection procedures ITP's and other issues as per contractor and client inspection requirements .

## Job Responsibilities

- Ensuring compliance with fire safety codes, regulations, and industry standards in the installation of fire fighting systems.
- Conducted thorough inspections, testing, and commissioning of firefighting systems, ensuring compliance with NFPA 13, NFPA 291 and NEOM Specs Section 210500.
- Performed hydrostatic tests on firefighting systems to verify the integrity of piping and connections and to ensure compliance with NFPA 13 and NEOM Specs Section 210500.
- Performed quality inspections and testing of HVAC systems, including Air Handling Units (AHUs), Fan Coil Unit (FCU), Package Units, Cassette units, Condensing Unit following ASHRAE, SMACNA and NEOM Specifications.
- Conducting performance testing of HVAC systems to evaluate their functionality, efficiency, and adherence to performance requirements.
- Performed smoke and light tests on duct systems to verify their integrity and compliance with design specifications.
- Checking the piping materials, grade, codes as per approved WPS and project standard specification Punch list preparation during line walk for piping spool, valves and its rotation check with respect to isometric and P&ID
- Managed and inspected plumbing installations, ensuring they comply with the International Plumbing Code (IPC) and NEOM Specifications.
- Conducted hydrostatic tests on plumbing systems to verify the strength and leakage integrity of pipelines.
- Performed Non-Destructive Testing (NDT), including Visual Testing (VT) and Dye Penetrant Testing (DPT), to verify the integrity of welds and structures.
- Oversaw the installation and testing of sewage treatment plants (STP), ensuring compliance with NEOM specifications.
- Conducted gravity tests on sewer lines to ensure proper slope and leak-free operation.
- Preparation and submission of weekly and monthly QA/QC Reports as per consultant/ Client requirements and shall include, as a minimum- RFI/WIR/MIR status, List of outstanding QA/QC issues, internal and external NCR logs.

## Tools Skills

- AutoCAD
- ABAQUS
- Arduino UNO
- Microsoft Office
- PTC CREO
- Solid Works

## Language Skills

### Languages

English  
Urdu  
Arabic

### Speaking

Excellent  
Excellent  
Good

### Writing

Excellent  
Excellent  
Good

### Reading

Excellent  
Excellent  
Good