



MUHAMMAD HUMAYUN KHAN

(QA/QC Engineer)

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PROFILE

CQI IRCA Certified QA/QC Engineer with 8+ years of experience in quality assurance and quality control across high-profile engineering and construction projects. Proven expertise in inspection and testing, quality management systems (QMS), quality documentation, compliance with international standards, and project specifications. Strong ability to manage complex technical activities, coordinate with cross-functional teams, contractors, and clients, and ensure continuous improvement in quality performance. Holds a Master's degree in Mechanical Engineering with a demonstrated track record of delivering quality objectives in fast-paced, high-pressure environments.

EDUCATION

- Master of Mechanical Engineering** 2020
University of Engineering & Technology Peshawar, Pakistan
- Bachelor of Mechanical Engineering** 2017
University of Engineering & Technology Peshawar, Pakistan

PROFESSIONAL EXPERIENCE

QA/QC Engineer Mechanical

Feb, 2026 – Till date

UCC Holding (BUJV Al Bawani & UCC Joint Venture)

Client: Diriyah Company **PMC:** V3 Middle East

- Implement approved Quality Management System (QMS) and project quality plans for mechanical works
- Ensure mechanical activities are carried out in accordance with approved ITPs & MST
- Prepare, Revised & submit Work Inspection Requests (WIRs) with consultants and clients
- Monitor day-to-day mechanical construction activities to ensure quality compliance
- Conduct and coordinate inspections for mechanical systems e.g. Plumbing work & hydro testing
- Review material submittals and ensure approved materials are used on-site
- Maintain quality records including IRs, test reports, checklists, and calibration records
- Track and close Non-Conformance Reports (NCRs), observations, and corrective actions
- Ensure compliance with contract documents, drawings, specifications, and Project PQP.
- Verify mechanical installations comply with applicable standards (ASHRAE, SMACNA, NFPA, BS, local regulations)
- Coordinate QA/QC activities with construction teams, subcontractors, and consultants

QA/QC Mechanical Inspector

Nov, 2024 – Jan, 2026

Salini Saudi Arabia (Webuild Group)

Client: Ministry of National Guard KSA **PMC:** ZFP Consultants

- Performed QC activities for a large-scale infrastructure and housing project comprising 6,000 villas, schools, mosques, and associated utilities in the Kingdom of Saudi Arabia.
- Implemented and enforced the Project Quality Plan (PQP) across multiple sites through inspections, monitoring, testing, and audits, achieving zero critical non-compliance issues.

- Reviewed and interpreted contract documents, IFC drawings, shop drawings, submittals, Method statements, and technical specifications to establish and maintain comprehensive quality management frameworks in full compliance with project requirements.
- Conducted pre-installation and in-process inspections for mechanical systems including HVAC units, firefighting, plumbing, piping system, and water supply works.
- Applied and monitored quality control procedures and inspection test plans (ITPs) to ensure compliance with project specifications and standards ASHRAE/NFPA/SMACNA/SBG.
- Performed material inspections and submittal reviews, achieving a 98% first-time approval rate, minimizing rework and preventing schedule delays.
- Participated in testing and commissioning (T&C) activities for mechanical systems, Witness pressure testing, gravity leakage tests, flushing, and cleaning.
- Track & close Non-Conformance Report (NCR) lifecycle, from identification and root cause analysis to corrective and preventive actions, achieving 95% NCR closure within target timelines.
- Drove continuous improvement initiatives by documenting lessons learned, conducting toolbox talks, and performing regular site quality audits and walk-throughs.
- Coordinated closely with consultants, contractors, and subcontractors to resolve quality issues efficiently, reducing repeat defects and improving overall construction quality.

QA/QC Engineer

Jan, 2024 – Oct, 2024

Kayan Horizon (BEC Arabia)

Client: NEOM (Sindalah Island Project)

PMC: AECOM

- Served as QC Engineer in Neom Sindalah Island Project a luxury mixed-use development comprising villas, multi-story buildings, luxury hotels, and associated infrastructure works.
- Developed and implemented Inspection and Test Plans (ITPs) and quality checklists for multiple construction activities in line with approved drawings and project specifications.
- Reviewed, edited, and approved method statements in coordination with Construction Managers and Site Engineers to ensure compliance with contractual and quality requirements.
- Studied and applied approved IFC drawings, shop drawings, material and equipment submittals, Method statements, technical specifications, applicable standards, and the Project Quality Plan (PQP) throughout project execution.
- Conducted quality control inspections and testing for mechanical works including HVAC, firefighting systems, plumbing, and wet utilities, ensuring full compliance with project specifications and industry standards.
- Initiated, documented, and managed the complete Non-Conformance Report (NCR) lifecycle, including root cause analysis and implementation of corrective and preventive actions.
- Collaborated effectively with consultants, construction managers, and multidisciplinary technical teams to resolve quality issues and drive timely corrective measures.
- Collected, analyzed, and reported quality performance data and KPIs, preparing weekly and monthly quality reports to support senior management decision-making.
- Promoted continuous improvement initiatives through documentation of lessons learned and implementation of preventive actions to enhance overall project quality.

QA/QC Engineer Mechanical

Aug, 2021 – Dec, 2023

National Project & Construction

QC Mechanical Inspector

June, 2020 – July, 2021

Sensire Services LLC

Quality Engineer Mechanical

Jan, 2019 – May, 2020

Hidayat Construction Company HCC

Trainee Engineer Mechanical

Jan, 2018 – Dec, 2018

Sarhad Rural Support Program SRSP

LICENSE/APPROVALS



Saudi Council of Engineers
Approved Mechanical Inspector
Approved Mechanical Inspector



ISO 9001 : 2015 Lead Auditor
Pakistan Engineering Council

CERTIFICATIONS

- QMS ISO 9001 : 2015 Lead Auditor (CQI IRCA)
- Fire Protection System (L&T EduTech)
- PMP Project Management Professional (Google)
- Data Analytics and Business Intelligence
- Construction Safety & Management
- Communication and Soft Skills
- TQM Total Quality Management (L&T EduTech)
- AutoCAD for Design & Drafting

TECHNICAL SKILLS

- **Quality Management:** Certified ISO 9001:2015 Lead Auditor, PQP Development & Implementation, ITP/MIR/WIR Management, Method Statement Review, Root Cause Analysis, NCR Management, Statistical Process Control, KPI Tracking
- **Mechanical Systems:** HVAC, Firefighting Systems, Plumbing & Drainage, Water Supply Infrastructure, Wet Utilities, Testing & Commissioning, Equipment Installation & Inspection
- **Standards & Codes:** ISO, ASHRAE, NFPA, SMACNA, SBC (Saudi Building Code), Int. Building Codes, Safety Standard
- **Technical Tools:** AutoCAD, Microsoft Office Suite, Data Analysis & Visualization, Quality Documentation Systems, Project Management Tools
- **Core Competencies:** Problem Solving, Data-Driven Decision Making, Process Optimization, Continuous Improvement, Technical Communication, Team Collaboration, Self-Development & Quick Learning, Reporting & documentation.

KEY ACHIEVEMENT

- Achieved 98% first-time approval rate for material quality verifications and technical submittals through systematic inspection processes and rigorous quality standards.
- Achieved 95% NCR closure rate within target timelines through systematic tracking and follow-up processes.
- Decreased recurring defects through effective root cause analysis, implementation of corrective actions, and preventive measures.
- Successfully trained 500+ site personnel through toolbox training sessions on quality standards and best practices
- Obtained prestigious NEOM and AECOM approvals as mechanical inspector

LANGUAGES

- English (Fluent) Arabic (Intermediate) Urdu/Pashto (Native)

References

References can be provided on demand