

Ahmed Abd El-Aty

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Quality Engineer

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Career Summary

Highly skilled **quality engineer** with extensive experience in ready-mix concrete production, laboratory testing, and construction quality control. Proficient in implementing **QA/QC procedures**, conducting field and laboratory inspections, and ensuring compliance with **ASTM, ACI, BS, and ISO 9001 standards**. Experienced in process improvement, reporting, and coordination with project stakeholders to enhance efficiency, safety, and project performance. Detail-oriented, reliable, and committed to delivering the highest standards of quality in construction operations.

Educational Background

- **Faculty:** Faculty of Science, Al-Azhar University – Assiut
- **Degree:** Bachelor of Science – Geology Department
- **Overall Grade:** Good
- **Graduation Project Grade:** Excellent

Work Experience

Quality Engineer | Al Imtiaz Al Wataniya Company for Contracting and Ready-Mix Concrete | July 2024 – Present

- Led QA/QC operations for ready-mix concrete production and on-site construction projects.
- Ensured compliance with industry standards (ASTM, BS, local codes) and project specifications, reducing rework and delays.
- Coordinated laboratory testing, field inspections, and reporting, enhancing project quality control and decision-making.
- Implemented process improvements to increase efficiency, safety, and overall project performance.

Geotechnical & QC Engineer | El-Mossallamy Consulting Office | 2022 – July 2024

- I have experience as a Geotechnical Engineer.
- Professional geologist in description of formation.
- Quality control on geophysical investigation by electromagnetic terrain conductivity.
- Soil replacement testing by DPLT, SPLT, and Sand Cone Test.
- Retaining wall (Keystone) supervision.
- Soil borings evaluation.

Projects Worked On:

- NEOM Project (Oxagon Region)
- Industrial Factories Area East
- Construction Assembling Base – El-Dabba Nuclear Power Plant "DNPP"

Tools & Techniques Used

- Concrete batching software
- Laboratory testing equipment (compression testing machine, slump cone, etc.)
- MS Excel & Word for reporting and data analysis
- ISO, ASTM, and ACI specifications

Responsibilities

Raw Material Inspection:

- Ensure quality and compliance of raw materials (aggregates, cement, water, admixtures) with relevant standards.
- Perform regular checks for cleanliness, moisture content, and storage conditions.

Concrete Mix Design:

- Develop and adjust concrete mix designs as per project requirements and specifications.
- Conduct trial mixes to validate performance (e.g., compressive strength, workability, setting time).
- Modify mix proportions based on environmental conditions and feedback from site.

Daily Production Monitoring:

- Verify that batching follows approved mix designs.
- Monitor water-cement ratio and temperature of fresh concrete.
- Ensure accurate calibration and functioning of batching systems.

Laboratory & Field Testing:

- Perform slump tests and compressive strength tests (7 & 28 days).
- Conduct tests on aggregates (gradation, specific gravity, absorption).
- Maintain proper documentation and test records.

Quality Assurance & Reporting:

- Prepare daily, weekly, and monthly quality control reports.
- Track rejected loads and investigate root causes.
- Coordinate with internal and external laboratories for third-party testing when needed.

Training & Awareness:

- Train plant operators, technicians, and drivers on quality protocols and standards.
- Promote a strong quality culture within the plant team.
- Coordination with Project Stakeholders:
 - Liaise with site engineers, consultants, and contractors to ensure delivery of concrete as per

approved specifications.

- Provide technical support on concrete behavior and curing processes.

Standards & Compliance:

- Ensure adherence to ASTM, ACI, and BS standards for materials and production.
- Implement and follow ISO 9001 Quality Management System procedures.

Tools & Techniques Used:

- Concrete batching software
- Lab testing equipment (compression testing machine, slump cone, etc.)
- MS Excel & Word for reporting
- ISO/ASTM/ACI specifications

Courses & Professional Training

- **Mining Geology & Sampling Techniques** – Sohag University | 2022
- **Ground Penetrating Radar (GPR) Session** – Technical Training | 2022
- **First Scientific Conference of Young Earth Scientists in Egypt** – Attendee | 2019
- **Human Development Training** – Al Azhar Training and Development Centre | 2018
- **ISO 9001:2015 Lead Auditor – Quality Management System**

Issued by: Next Generations Company Ltd., Saudi Arabia

Accredited by: Exemplar Global

Date of Completion: June 6, 2025

Valid for 5 years (until June 2030)

Note : Certificate available upon request

Successfully completed the ISO 9001:2015 Lead Auditor Training Course, meeting the requirements for QMS auditor certification. The course included auditing techniques, quality system principles, and ISO standard interpretation based on Exemplar Global guidelines

Skills

Technical Skills

- Approved Certified – NEOM Standards Compliance
- Geotechnical Investigations & Soil Analysis (DPLT, SPLT, Sand Cone Test)
- Geological Formation Description & Site Assessment
- Retaining Wall Design & Supervision (Keystone)
- Quality Assurance & Control (QA/QC)
- Concrete Production & Mix Design Optimization
- Laboratory & Field Testing (Slump, Compressive Strength, Aggregate Testing)
- Project Planning, Data Analysis & Reporting
- Compliance with ASTM, ACI, BS Standards, ISO 9001
- Process Improvement & Safety Management
- Coordination with Project Stakeholders & Teams

Soft Skills

- Work under stress
- Problem solving
- Time management
- Able to work and lead a team
- Communication and presentation skills

Languages

- Arabic: Native
- English: Intermediate

Personal Data

- **Gender:** Male
- **Marital Status:** Single
- **Military Service:** Exempted
- **Nationality:** Egyptian