

DALITSO MWANZA

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CHEMICAL AND MATERIALS SCIENCE ENGINEER

Tanger., MOROCCO

Highly motivated and results-oriented Chemical and Materials Science Engineer with a strong foundation in analytical chemistry techniques and a keen interest in geochemistry. Seeking to leverage my analytical skills and experience in quality control procedures for a rewarding career as an Analyst - Geochemistry at SGS. Proven ability to conduct precise laboratory analyses, adhere to strict quality standards (ISO/IEC 17025), and interpret analytical data

PROFESSIONAL EXPERIENCE

Quality Control Engineer Intern

Cherifian Company of Industrial and Railway Equipment

Jan, 2023 – Jun., 2023

Casablanca, Morocco

- Conducted destructive and non-destructive testing of welds using [Visual Testing (VT, Liquid Penetrant Testing (PT), Radiographic Testing (RT), Ultrasonic Testing (UT)], ensuring adherence to industry standards (ASTM E8/E8M, ASTM A370, AWS B4.0, AWS B3.0, ISO 15614, ISO 10801).
- Analyzed test results to identify potential defects and ensure weld integrity.
- Assisted in calibrating and maintaining testing equipment, adhering to established protocols.
- Contributed to the development and implementation of new quality control procedures for weld inspection, improving overall process efficiency.
- Collaborated with senior engineers to analyze test results, identify areas for improvement, and implement corrective actions to address defects, yielding a 20% improvement in overall efficiency.

Quality Control Engineer Intern

AL ALAMIA Flour Mill

Apr., 2021 – Jul., 2021

Settat, Morocco

- Demonstrated proficiency in quality control principles by conducting inspections and tests throughout the durum wheat flour production chain.
- Utilized laboratory equipment and followed established procedures to assess product quality using standard metrics (e.g., moisture content, particle size distribution).
- Contributed to process optimization by assisting in developing and implementing improvements that reduced production errors by 30%. This experience highlights your ability to apply analytical skills and problem-solving in a laboratory setting.

EDUCATION

MSc. Chemical and Materials Science Engineering, Hassan 1 st University 2021 – 2023

Magna Cum Laude

BSc. Applied Chemistry and Environment, Hassan 1 st University 2018 – 2021

Cum Laude

SKILLS

- **Analytical Techniques:** X-Ray Fluorescence (XRF), Inductively Coupled Plasma (ICP) - Optical Emission Spectrometry (OES), X - Ray Diffraction (XRD) , Scanning & Transmission Electron Microscope (SEM/TEM)
- **Quality Management Systems (QMS):** Proficient in ISO 9001 principles for implementing and maintaining effective Quality Assurance/Control (QA/QC) programs.
- **Testing and Calibration:** Skilled in following documented test methods and adhering to ISO/IEC 17025 standards for laboratory operations. Meticulous in maintaining accurate calibration records for test equipment.**Data Analysis:** Skilled in data interpretation, statistical analysis, and generating reports using [Software, e.g., Microsoft Excel, Python programming].
- **Technical Writing:** Ability to document procedures, report analytical results, and identify deviations from standard protocols.
- **Computer Skills:** Proficient in Microsoft Office Suite 365.
- **Chemical Process Control:** Skilled in laboratory safety protocols and hazardous materials handling.

LANGUAGES

- English (Fluent)
- French (Fluent)
- Spanish (Conversational)

CERTIFICATIONS AND COURSES

- Project Management Fundamentals
- Chemical Safety; Process Safety Management
- ISO/IEC 17025:2017 - Laboratory Management Systems
- ISO 9001:2015 - Quality Management System (QMS)
- Green Belt Lean6Sigma
- Python Programming and Data Visualization/Analytics

REFERENCES

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