Tyler Hughes

Chemistry Technician

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Summary

Chemistry Technician with 2 years in a refinery quality lab, testing process streams, finished fuels and cooling water around the clock. Handles titrations, wet chemistry and instrument checks, enters results in SAP and LIMS, and works independently on night shifts with steady problem solving when results drift.

Experience

Chemistry Technician

08/2024 - Present

River Parish Refining Company — Baton Rouge, LA

Refinery quality lab running 12-hour rotating shifts for a 180,000 barrel-per-day plant.

- Test 60 process and product samples a shift for sulfur, water content, density and flash point by ASTM methods.
- Run Karl Fischer titration and potentiometric titrations, holding check-sample results within 2% of target values.
- Record results in SAP and LIMS and alert operators to about 15 off-spec streams a month within 10 minutes.
- Maintain 9 online analyzers with weekly instrument calibration, logging work in Excel and cutting downtime by 20%.

Laboratory Assistant

01/2023 - 07/2024

Capital Area Water Testing — Baton Rouge, LA

Environmental lab for municipal and private drinking water clients; part-time while in school.

- Logged 80 drinking water samples a day and handled sample preparation for pH, chlorine and hardness testing.
- Performed wet chemistry tests for alkalinity and hardness on 50 samples a day using approved EPA methods.
- Managed glassware, reagent stock and the sample cooler log for 4 analysts, passing 2 state audits with no findings.
- Wrote daily summaries in Word for 12 municipal clients, flagging results above limits to the lab manager.

Education

Associate of Applied Science

05/2024

Baton Rouge Community College — Baton Rouge, LA

Process Technology

Skills

- Titrations
- Wet Chemistry
- Karl Fischer Titration
- Sample Preparation
- Instrument Calibration
- SAP
- LIMS
- Excel
- Word
- Problem Solving

Certificates

OSHA 10-Hour General Industry

2024

OSHA Training Institute Education Center