

DIVYAKUMAR PATEL

PLANT OPERATOR - Wet Chemistry, Quality Control, & Process Operations

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SKILLS

- **Laboratory & Testing:** Sample preparation, reagent handling, calibration, wet chemistry pH titration analysis
- **Process & Operations:** Batch processing systems, distillation units, VTD, RVD, jet mills, parameter checks
- **Chemical Processes:** Sulphonation, ethoxylation, esterification, centrifuging, pyrolysis, yield optimization
- **Technical Tools:** SAP process entry, Excel data logging, Word and Slideware reporting, Python automation
- **Safety & Compliance:** Confined space monitoring, hot work checks, hazard identification, emergency response

WORK EXPERIENCE

Site Safety Technician (Contract)

Sept/Oct 2024, June/July 2025

DXP HSE Integrated Ltd. (Client: Cenovus Energy, Suncor)

Rainbow Lake, Fort McMurray

- Monitored confined space, hot work, and high-pressure operations across 25+ shifts, ensuring 100% compliance with Cenovus Energy standards and contributing to zero reportable incidents during contract assignments.
- Collaborated hazard identification and 40+ job safety assessments, reducing potential risks by 30% and strengthening preventive measures that improved overall site safety performance across multiple high-risk operations.
- Maintained and reviewed 100+ permits, logs, and safety documentation, achieving full audit readiness & supporting emergency response drills that elevated compliance verification & reduced inspection delays by 25%.

Field Executive

November 2022 – September 2023

Alembic Pharmaceuticals Ltd.

India

- Operated distillation units including vacuum, fractional, and simple systems, controlling parameters across 50+ batches to maintain separation quality and reduce deviations by 20% under GMP and SOP compliance standards.
- Supervised equipment operations for Vacuum Tray Dryers, Rotary Vacuum Dryers, & Jet Mills, performing 200+ checks that improved reliability, reduced unplanned interruptions by 15%, & strengthened process consistency.
- Managed and maintained 150+ Batch Manufacturing & Cleaning Records with 100% accuracy, improving traceability, ensuring audit readiness, & supporting faster corrective actions during pharmaceutical production cycles.

Operations Officer – Quality Control & Laboratory Support

July 2021 – October 2022

TML Industries Ltd.

India

- Performed 300+ wet chemistry and physical tests including pH, titration, and moisture analysis, ensuring product conformity and reducing deviations by 20% across raw materials, intermediates, and finished chemical products.
- Executed density, specific gravity, solubility, & ash content evaluations, generating precise QC data that elevated batch acceptance rates by 15% & supported Certificate of Analysis documentation for regulatory audits.
- Coordinated sample prep, labeling, and traceability for 500+ test samples, maintaining compliance with SOPs and improving laboratory record accuracy by 25% during routine quality audits and external certification reviews.

Chemical Engineering Intern

January 2021 – February 2021

Bodal Chemicals Ltd.

India

- Facilitated in Vinyl Sulphone manufacturing by monitoring sulphonation and chlorosulphonation reactions, ensuring safe handling of corrosive acids and supporting 10+ batch operations under chemical safety protocols.
- Operated reduction & ethoxylation processes under controlled pH & nitrogen-blanketed conditions, improving reaction consistency by 20% & supporting downstream sulfation & esterification steps for final product formation.
- Monitored Jet Mill micronization & flaker operations for 15+ batches, achieving required particle size distribution & improving product quality compliance by 25% while adhering to stringent chemical engineering safety practices.

PROJECT EXPERIENCE

Alternative Strategy for Conversion of Waste Plastic into Fuel

Chemical Engineering Project Lead / Student Researcher

- Executed pyrolysis experiments converting plastic waste to crude oil, achieving 25% higher yield efficiency.
- Analyzed product yield performance across varied conditions, improving conversion accuracy by 20% overall.

EDUCATION

Applied Bachelor's Degree in Petroleum Engineering

January 2026 – Present

Southern Alberta Institute of Technology (SAIT), Calgary

Bachelor's Degree in Chemical Engineering

June 2017 – April 2021

Parul University, India

CERTIFICATIONS

- Construction Safety Training System (CSTS), H2S Alive
- Common Safety Orientation (CSO), First Aid & CPR-C
- Confined Space Entry Certification, Fall Protection Certification