

# Pradeep Dashrath Patel

ENVIROMENTAL EIT - CEPA Compliance, Technical Reporting, ECA Applications

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📍 Ontario

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## SKILLS

- **Environmental Compliance:** CEPA, ECA Applications, NPRI Reporting, E2 Regulations, Schedule 1 Substances
- **Technical Tools:** ArcGIS, SWMM, AutoCAD, Microsoft Office, LiDAR Interpretation, GPS Data Loggers
- **Field Techniques:** Soil, Air, Groundwater Sampling, Phase I/II ESA, SOP Drafting, QA/QC Methodologies
- **Regulatory Standards:** ISO 14001:2015, ISO 45001:2018, ISO 19011, WHMIS, TDG, Lockout/Tagout
- **Technical Communication:** Regulatory Submissions, Technical Documentation, Stakeholder Reporting

## WORK EXPERIENCE

### Production Associate

January 2024 – January 2025

*Cleveland-Cliffs*

*Ontario*

- Calibrated rotary kilns and hydraulic compaction units to meet tolerance thresholds, sustaining optimal cycle rates and achieving 99.2% process accuracy across 60+ daily runs while ensuring WHMIS-compliant flow for hazardous material.
- Executed waste stream audits with EHS teams, boosting solid waste diversion by 15% and ensuring 100% TDG compliance on labelling, storage, and transfer during a 12-month period, logging audit in regulatory tracking sheets.
- Revised 30+ SOPs and chemical logs using ISO 14001/45001 clauses and inspection data, reducing audit revision cycles by 22% and enhancing cross-shift data traceability, improving compliance in regulated manufacturing zones.

### EHS Coordinator

September 2021 – December 2022

*JRS Pharma*

*India*

- Created interdepartmental HSE risk matrices using ISO 14001:2015 & ISO 45001:2018, reducing incidents by 40% across 11 departments and aligning efforts with CEPA, TDG, and internal compliance metrics under corporate mandates.
- Delivered 150+ training sessions on PPE, LOTO, and WHMIS practices, improving audit readiness by 36% and achieving zero compliance citations across 7 verticals during third-party inspections and internal surveillance audits.
- Digitized NPRI Schedule 1 waste data and conducted pre-audit checks, reducing reporting times by 20% and securing full traceability on ECCC submissions, ensuring accurate hazardous waste records during third-party audits.

### Engineer-in-Training (Production)

August 2020 – August 2021

*Deedy Chemicals*

*India*

- Operated scrubbers and neutralization units on 3 lines to maintain 100% permit uptime, keeping emissions within provincial limits and sub-threshold values while running continuous discharge monitoring and logging compliance data.
- Authored SOPs for chemical dosing using sensors and shutoff alarms, reducing hazardous residue by 12% and ensuring exact flow control across three shifts while meeting Schedule 1 dosage regulations and audit expectations.
- Directed internal ISO 14001 audits by mapping high-risk zones, confirming MSDS visibility, and logging findings that raised environmental readiness by 18% while closing 9 documentation non-conformities noted in external reviews.

## PROJECT EXPERIENCE

### Stormwater Management – Urban Region, Windsor

*Graduate Researcher, Ontario*

- Modeled flood scenarios using EPA SWMM, simulating runoff and peak discharge under varied IDF curves across Windsor's urban zones; analyzed sensitivity to rainfall shifts in residential and mixed-use regions under climate stress.
- Evaluated drainage systems by examining surcharge frequency, ponding depth, and hydraulic limitations across return periods; insights supported low-impact development strategies for urban stormwater capacity enhancement planning.

### GIS-Based Site Suitability Mapping

*GIS Analyst, Ontario*

- Performed GIS-based U-Haul site suitability analysis using MCDC in ArcGIS by layering zoning, traffic proximity, and environmental buffers; refined results using weighted overlay and reclassification to identify optimal site parcels.
- Generated composite raster maps integrating proximity criteria, zoning compliance, and buffer zones for critical areas; output highlighted parcels with highest suitability index aligned with commercial objectives and planning regulations.

## EDUCATION

### M.Eng, Environmental Engineering

*University of Windsor, Ontario*

May 2023 – October 2024

**CGPA: 3.3/4.0**

### B.Eng, Chemical Engineering

*Gujarat Technological University, Gujarat*

August 2020 – August 2020

**CGPA: 7.7/10.0**

## CERTIFICATIONS

- **Environmental Professional in Training (EPt)**, ISO 19011 Lead Auditor Training, Risk Management
- **ISO 14001 Environmental Management Systems**, ISO 45001 Occupational Health & Safety, WHMIS
- **Lockout/Tagout, TDG (Transportation of Dangerous Goods)**, Project Management Fundamentals