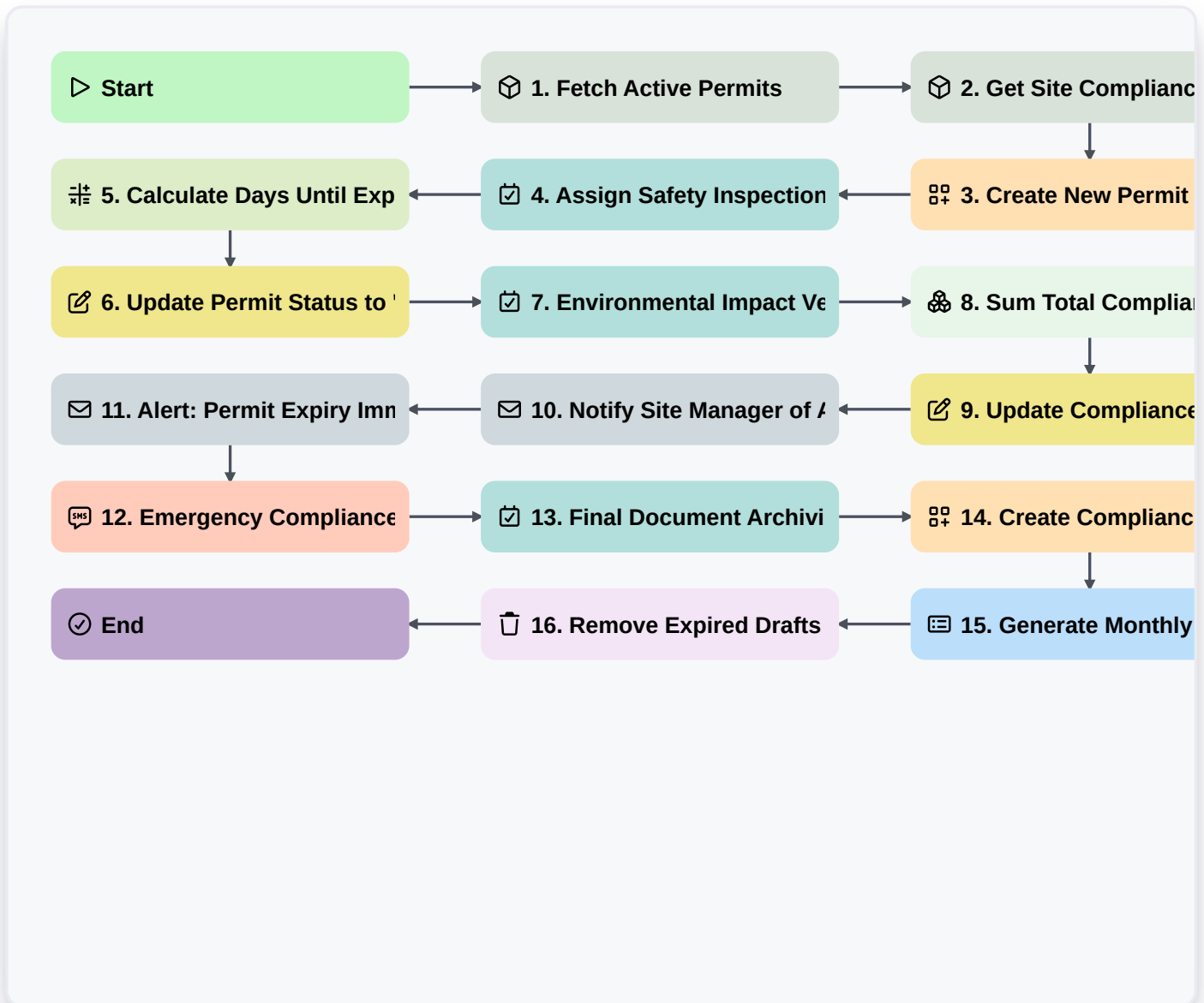


Mine Site Permit & Compliance Tracking



▷ Start

Start of the Workflow/Process.

📦 1. Fetch Active Permits

Retrieve all existing permit entries from the Permit Data Model to check for current expiration dates.

📦 2. Get Site Compliance Regulations

Fetch regulatory requirements and compliance standards from the Regulations Data Model.

📋 3. Create New Permit Application

Generate a new entry in the Permit Data Model when a new mining activity is requested.

📋 4. Assign Safety Inspection Task

Create a task for the Safety Officer to conduct a physical site inspection.

📅 5. Calculate Days Until Expiration

Subtract the current date from the Permit Expiry Date to determine the urgency of renewal.

📝 6. Update Permit Status to 'Under Review'

Change the status field of the permit entry once the application has been successfully submitted.



7. Environmental Impact Verification

Create a task for the Environmental Specialist to verify compliance with land use regulations.

8. Sum Total Compliance Costs

Aggregate all 'Fee' entries associated with the current permit to calculate total regulatory cost.

9. Update Compliance Score

Update the permit entry with the final calculated compliance score after all inspections are complete.

10. Notify Site Manager of Approval

Send an automated email to the Site Manager when the permit status is updated to 'Approved'.

11. Alert: Permit Expiry Imminent

Send an urgent email alert to the Compliance Team if the calculated days until expiration is less than 30.

12. Emergency Compliance Breach Alert

Send an SMS to the Safety Lead if a critical non-compliance issue is logged in a task.

13. Final Document Archiving

Create a task to move all signed permit documents to the permanent digital archive.

14. Create Compliance Incident Log

Generate a new entry in the Incident Data Model if an inspection task fails its checklist.

15. Generate Monthly Compliance Summary

Create a monthly report summarizing all approved, pending, and expired permits for stakeholders.

16. Remove Expired Drafts

Delete draft permit entries that have remained in 'Draft' status for more than 90 days.

End

End of the Workflow/Process.