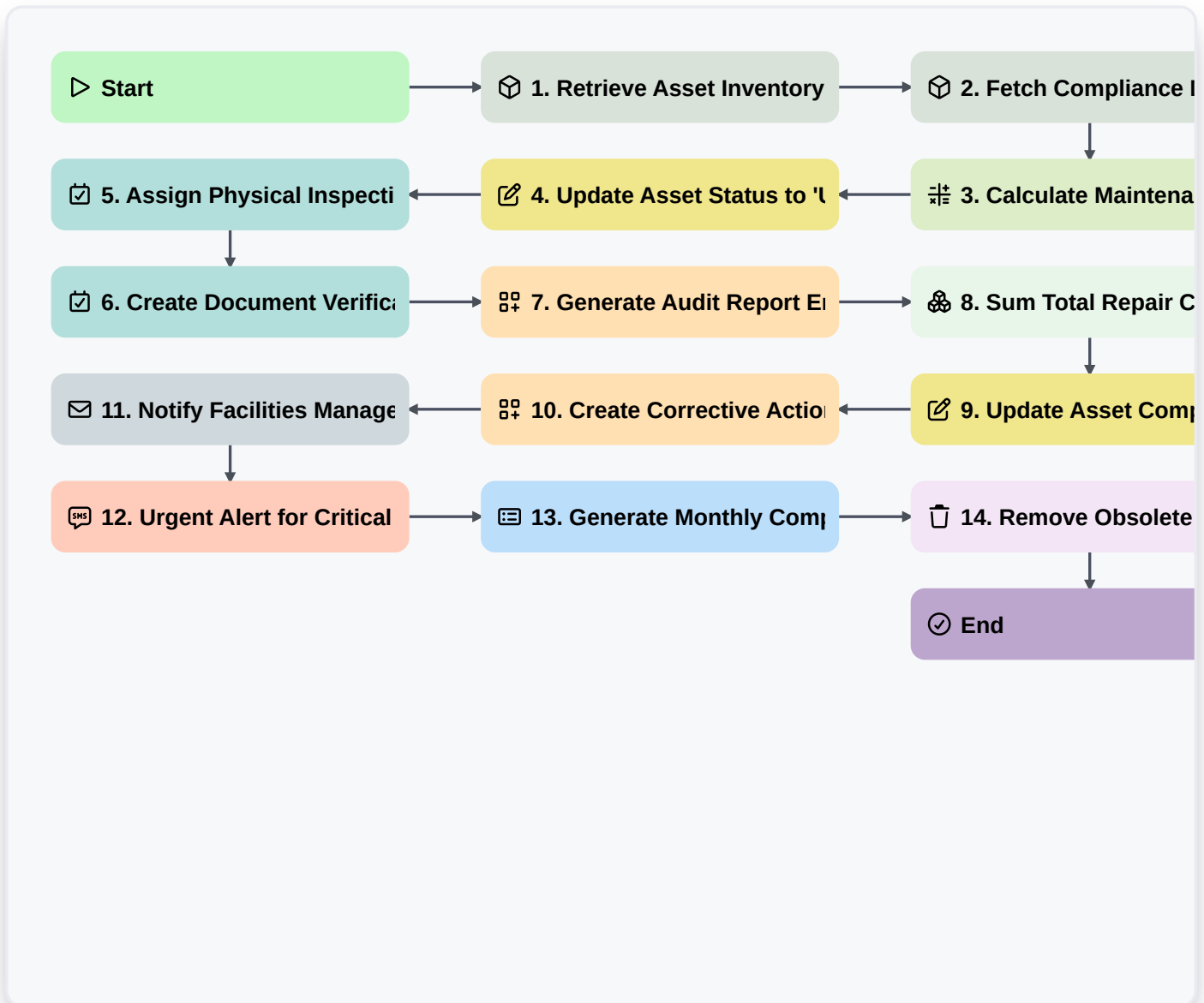


Maintenance Audit And Compliance Process



▷ Start

Start of the Workflow/Process.

📦 1. Retrieve Asset Inventory

Fetch all equipment entries from the Asset Data Model to identify which items are due for inspection.

📦 2. Fetch Compliance Deadlines

Retrieve regulatory calendar entries to check for upcoming audit windows.

📊 3. Calculate Maintenance Overdue Ratio

Calculate the percentage of assets where 'Last Inspection Date' is older than the 'Required Frequency'.

✍️ 4. Update Asset Status to 'Under Audit'

Change the status field in the Asset Data Model to prevent other maintenance tasks from overlapping.

📝 5. Assign Physical Inspection Task

Create a task for the Maintenance Technician to perform the on-site physical check.

📝 6. Create Document Verification Task

Create a task for the Compliance Officer to verify safety certificates and logs.



7. Generate Audit Report Entry

Create a new entry in the Audit Findings Data Model to store the results of the inspection.

8. Sum Total Repair Costs

Aggregate all 'Repair Cost' values from the findings entry to calculate the total maintenance spend.

9. Update Asset Compliance Score

Update the 'Compliance Rating' field in the Asset Data Model based on the audit results.

10. Create Corrective Action Request

If a failure is found, create a new entry in the Corrective Action Data Model.

11. Notify Facilities Manager

Send an email summary of the audit findings and any critical failures to the Manager.

12. Urgent Alert for Critical Failure

Send an SMS to the Engineering Lead if a 'Critical' severity finding is recorded.

13. Generate Monthly Compliance Summary

Generate a PDF report summarizing all completed audits and current compliance percentages for the month.

14. Remove Obsolete Inspection Logs

Delete temporary/draft inspection notes once the final Audit Report Entry is finalized.

End

End of the Workflow/Process.