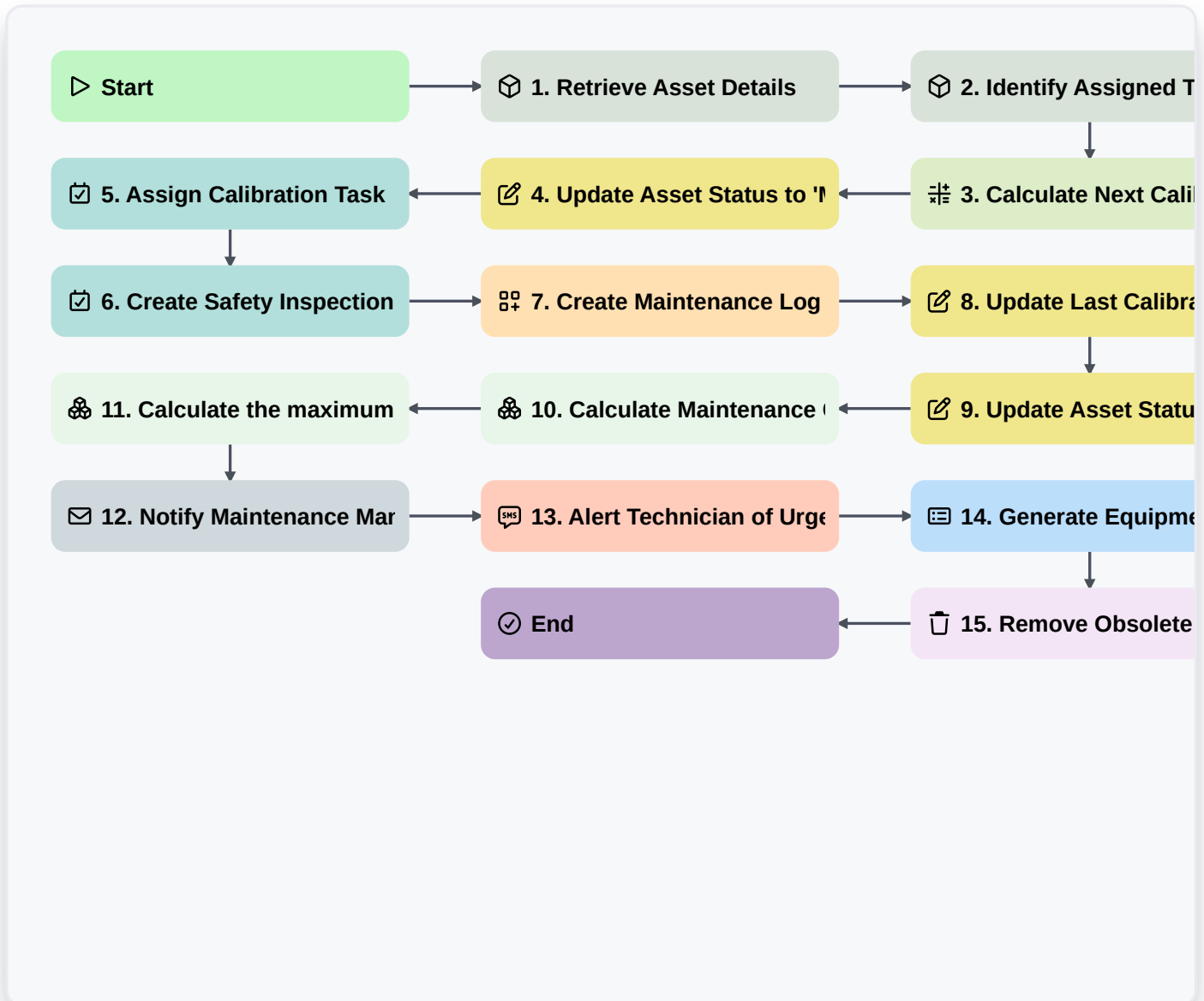


Equipment Calibration And Maintenance Management



▶ Start

Start of the Workflow/Process.

📦 1. Retrieve Asset Details

Fetch the specific equipment record from the Equipment Data Model to identify calibration intervals and last service date.

📦 2. Identify Assigned Technician

Retrieve the technician profile and contact details associated with the maintenance department.

📅 3. Calculate Next Calibration Due Date

Add the calibration interval (from the asset model) to the last calibration date to determine the next due date.

✍️ 4. Update Asset Status to 'Maintenance Required'

Change the status property in the Equipment Data Model to alert all users that the unit is currently out of service.

📋 5. Assign Calibration Task

Create a new task assigned to the Technician containing the equipment ID and required calibration steps.



6. Create Safety Inspection Task

Generate a sub-task for the safety officer to verify the equipment is safe for use after maintenance.

7. Create Maintenance Log Entry

Generate a new entry in the Maintenance History Data Model to document the completed work, technician, and results.

8. Update Last Calibration Date

Update the 'Last Calibration Date' field in the Equipment Data Model with the current date upon successful completion.

9. Update Asset Status to 'Operational'

Revert the status property in the Equipment Data Model back to 'Active/Operational'.

10. Calculate Maintenance Cost Total

Sum all costs from the Maintenance Log entries associated with this specific piece of equipment to track total cost of ownership.



11. Calculate the maximum measurement deviation recorded in recent calibration entries to identify precision drift.

Find the max value of the 'deviation' property in the recent calibration entries.

12. Notify Maintenance Manager

Send an email notification to the manager summarizing the completed maintenance and any identified issues.

13. Alert Technician of Urgent Task

Send an SMS to the technician's mobile number when a high-priority calibration task is assigned.

14. Generate Equipment Health Report

Create a periodic report summarizing all completed, pending, and overdue maintenance tasks for the department.

15. Remove Obsolete Inspection Checklists

Delete temporary or redundant inspection checklists that are no longer relevant after the task completion.

End

End of the Workflow/Process.