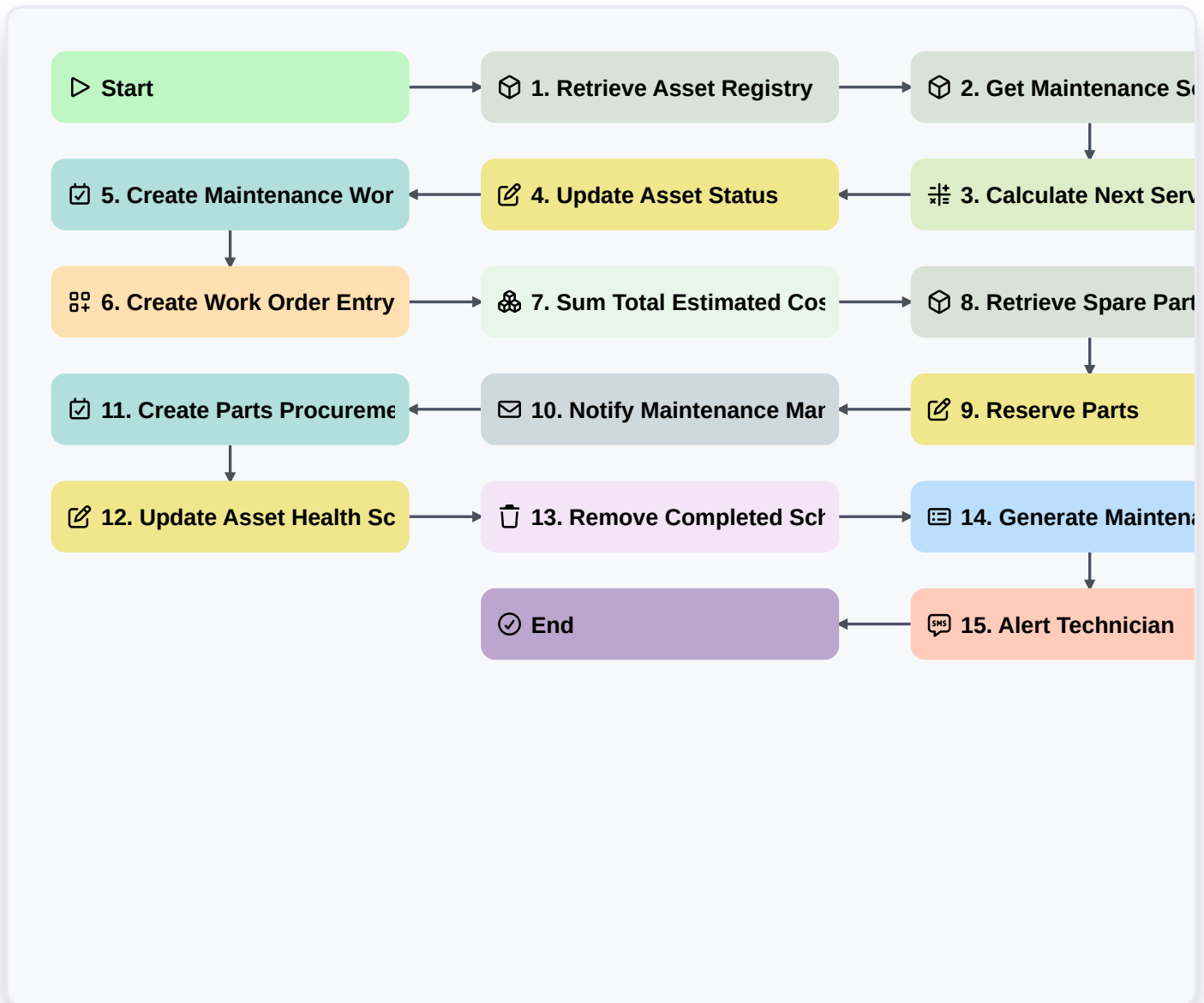


Preventive Maintenance Scheduling Workflow



▷ Start

Start of the Workflow/Process.

📦 1. Retrieve Asset Registry

Fetch all machinery and equipment entries from the Asset Data Model to identify assets due for maintenance.

📦 2. Get Maintenance Schedules

Retrieve existing maintenance schedule records to check for upcoming or overdue maintenance windows.

📅 3. Calculate Next Service Date

Calculate the next maintenance date by adding the maintenance interval (days) to the last service date.

✍️ 4. Update Asset Status

Update the 'Status' field of an asset to 'Maintenance Pending' when a new schedule is identified.

📝 5. Create Maintenance Work Order

Generate a new task assigned to a Maintenance Technician containing the specific service checklist.

📝 6. Create Work Order Entry

Create a new record in the Work Order Data Model to log the details of the upcoming maintenance event.



7. Sum Total Estimated Cost

Aggregate the estimated cost of all parts and labor required for the scheduled maintenance tasks.

8. Retrieve Spare Parts Inventory

Check the inventory data model to ensure required parts are in stock for the scheduled task.

9. Reserve Parts

Update the 'Reserved' quantity in the Inventory Data Model to deduct parts allocated for the maintenance task.

10. Notify Maintenance Manager

Send an email notification to the manager regarding newly scheduled maintenance and required budget approval.

11. Create Parts Procurement Task

If parts are unavailable, create a task for the Procurement Officer to order necessary components.

12. Update Asset Health Score

Update the 'Health Score' field in the Asset Data Model based on the results of the completed maintenance.

13. Remove Completed Schedule

Delete the temporary 'Pending Schedule' entry once the Work Order has been successfully converted to a completed task.

14. Generate Maintenance Compliance Report

Generate a report summarizing all completed vs. missed maintenance tasks for the monthly audit.

15. Alert Technician

Send an SMS alert to the assigned technician when a high-priority maintenance task is assigned to them.

End

End of the Workflow/Process.