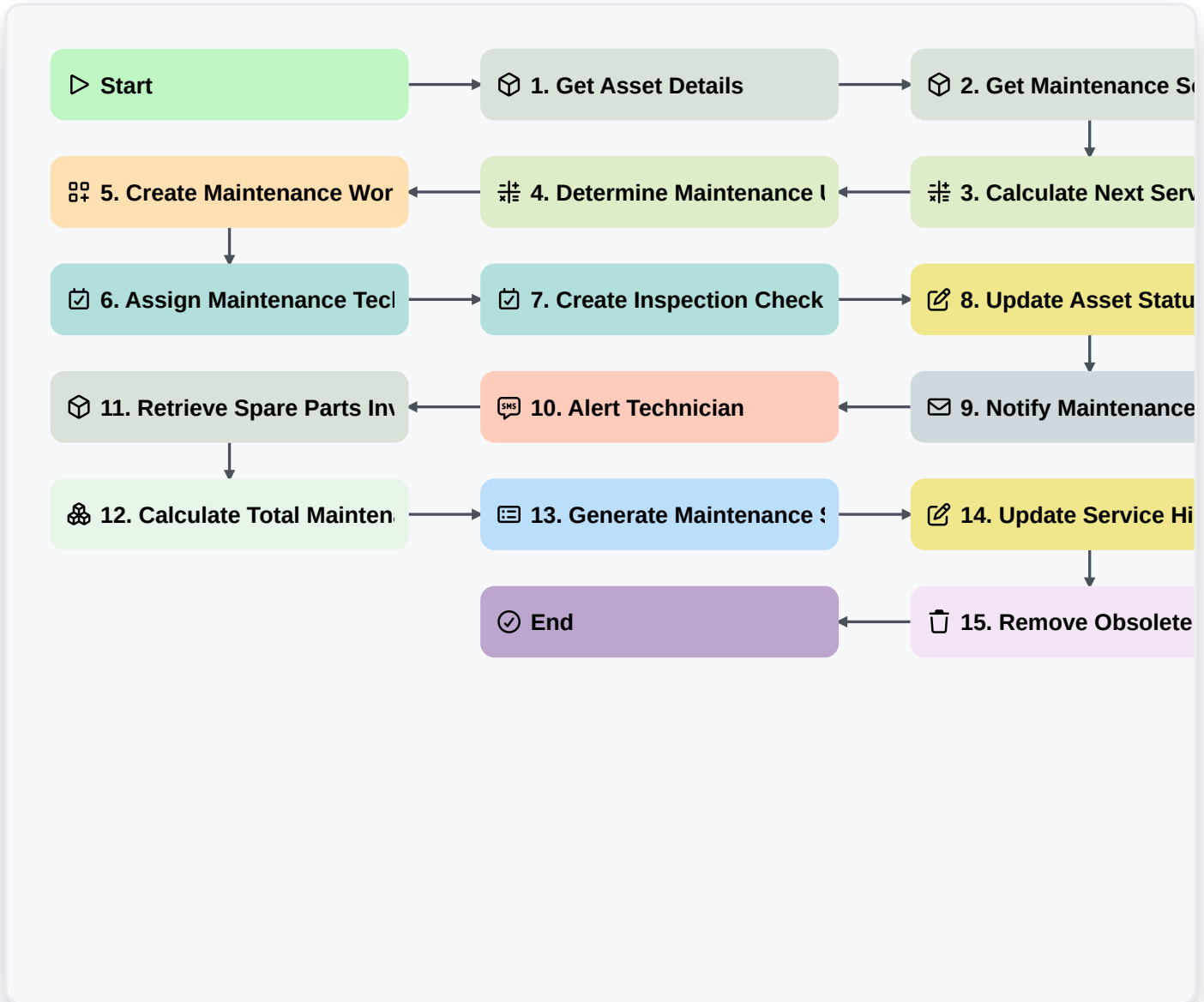


# Automated Preventive Maintenance Workflow & Asset Lifecycle Management Process



## ▶ Start

Start of the Workflow/Process.

## 📦 1. Get Asset Details

Retrieve all technical specifications and last maintenance date from the Asset Data Model.

## 📦 2. Get Maintenance Schedule

Fetch the predefined maintenance frequency intervals for the selected equipment.

## 📅 3. Calculate Next Service Date

Calculate the next due date by adding the maintenance interval to the last service date.

## 📅 4. Determine Maintenance Urgency

Compare current date with next service date to determine if the priority is High, Medium, or Low.

## 📄 5. Create Maintenance Work Order

Generate a new Work Order entry in the Maintenance Log Data Model with calculated dates and priority.



## **6. Assign Maintenance Technician**

Create a task assigned to the maintenance team member responsible for the specific asset class.

## **7. Create Inspection Checklist**

Generate a standardized inspection checklist task based on the asset type requirements.

## **8. Update Asset Status**

Update the Asset Data Model status to 'Under Maintenance' to prevent further scheduling conflicts.

## **9. Notify Maintenance Manager**

Send an email notification to the manager regarding the newly created high-priority work order.

## **10. Alert Technician**

Send an SMS alert to the assigned technician to notify them of a new urgent maintenance task.

## **11. Retrieve Spare Parts Inventory**

Check the Inventory Data Model to ensure necessary spare parts are available for the task.

## **12. Calculate Total Maintenance Cost**

Sum the costs of parts and labor from completed maintenance entries to calculate total lifecycle cost.

## **13. Generate Maintenance Summary Report**

Create a monthly maintenance performance report containing completed tasks and downtime metrics.

## **14. Update Service History**

Update the completed service record in the Maintenance Log with the technician's findings.

## **15. Remove Obsolete Drafts**

Clean up expired or duplicate maintenance draft entries from the system.

## **End**

End of the Workflow/Process.