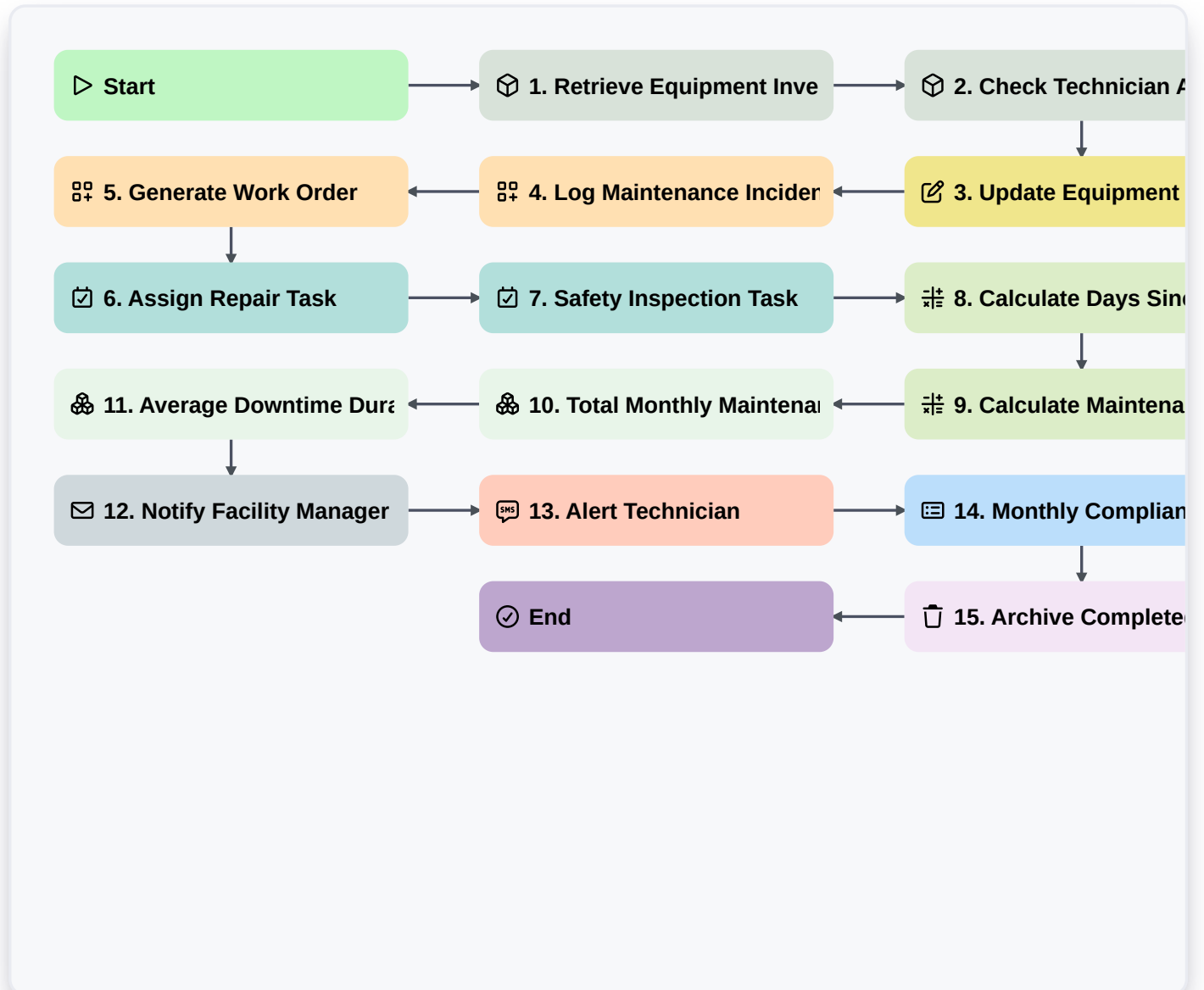


# Healthcare Facility Management And Maintenance



## Start

Start of the Workflow/Process.

## 1. Retrieve Equipment Inventory

Fetch all active medical devices and machinery from the Equipment Data Model to check maintenance schedules.

## 2. Check Technician Availability

Retrieve staff entries from the Personnel Data Model to identify available maintenance engineers.

## 3. Update Equipment Status

Update the status of a specific machine entry to 'Under Maintenance' or 'Out of Order' in the Equipment Data Model.

## 4. Log Maintenance Incident

Create a new entry in the Maintenance Log Data Model when a fault is reported.

## 5. Generate Work Order

Create a new entry in the Work Order Data Model containing the repair details and assigned technician.

### **6. Assign Repair Task**

Create a task for the assigned technician to perform the physical inspection and repair.

### **7. Safety Inspection Task**

Create a task for the Safety Officer to verify that the facility meets compliance standards after repair.

### **8. Calculate Days Since Last Service**

Calculate the delta between the current date and the 'Last Maintenance Date' field to determine if service is overdue.

### **9. Calculate Maintenance Cost**

Calculate the total cost of the maintenance event by summing parts and labor.

### **10. Total Monthly Maintenance Spend**

Aggregate all maintenance entries from the current month to calculate the total expenditure.

### **11. Average Downtime Duration**

Calculate the average time between 'Issue Reported' and 'Issue Resolved' across all recent work orders.

### **12. Notify Facility Manager**

Send an email alert to the Facility Manager when a critical piece of equipment is marked as 'Out of Order'.

### **13. Alert Technician**

Send an SMS notification to the assigned technician when a new high-priority Work Order is assigned to them.

### **14. Monthly Compliance Report**

Generate a periodic report summarizing all completed inspections and any failed safety checks for regulatory auditing.

### **15. Archive Completed Records**

Remove or move old, completed maintenance entries from the active view to the archive data model.

### **End**

End of the Workflow/Process.