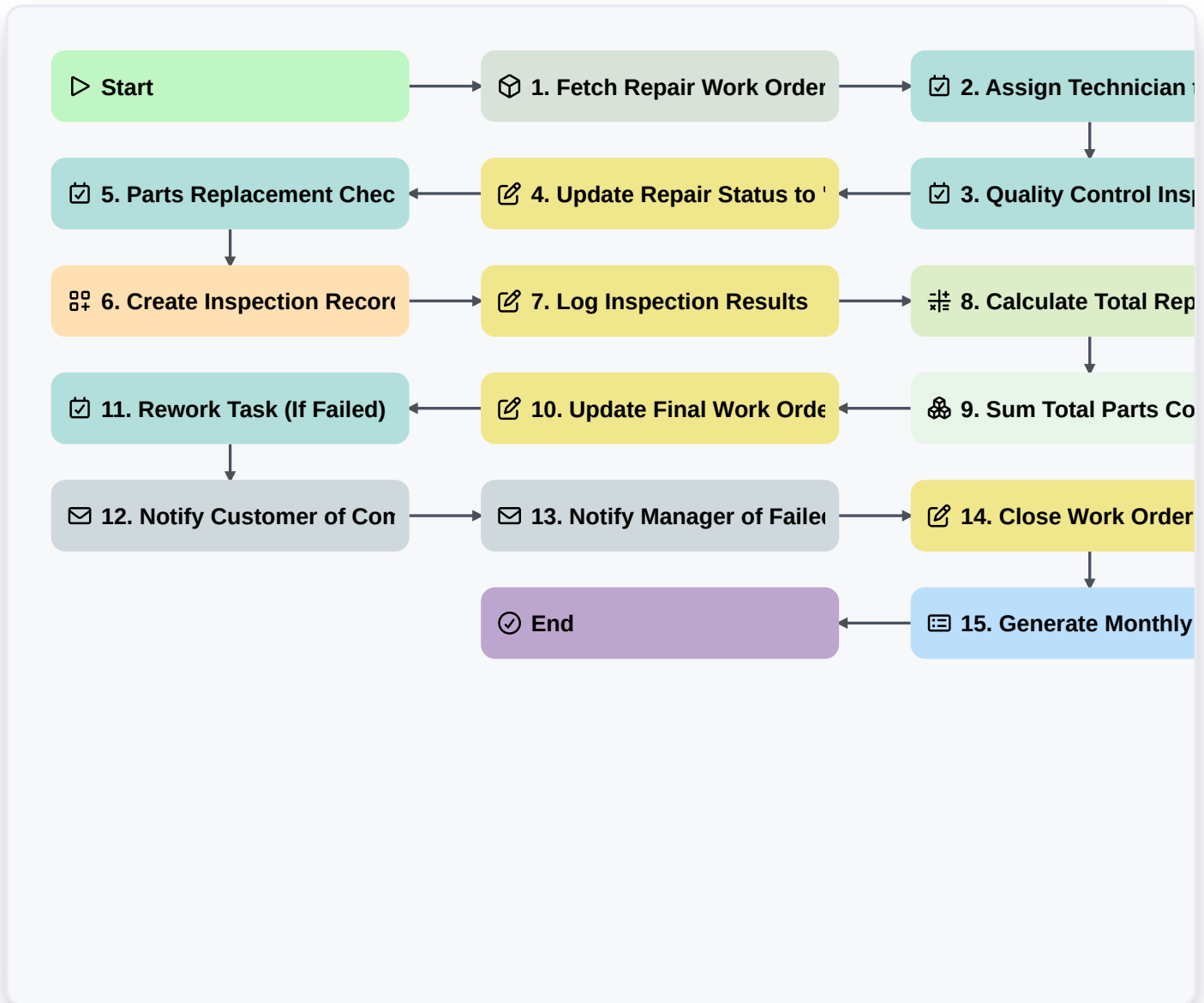


Repair Completion And Quality Control Inspection



▷ **Start**

Start of the Workflow/Process.

 **1. Fetch Repair Work Order**

Retrieve the specific repair order details and equipment information from the Repair Data Model.

 **2. Assign Technician to Repair**

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

 **3. Quality Control Inspection Task**

Create a mandatory task for a Quality Control Inspector once the repair task is marked as complete.

 **4. Update Repair Status to 'In Progress'**

Update the status field of the Repair Work Order entry to reflect that work has started.

 **5. Parts Replacement Checklist**

Attach a checklist to the repair task to ensure all replaced parts are logged and verified.



6. Create Inspection Record

Generate a new entry in the Inspection Logs data model for the current QC session.

7. Log Inspection Results

Update the newly created Inspection Record with Pass/Fail results and findings.

8. Calculate Total Repair Cost

Sum the cost of parts and the technician's labor hours to determine the final repair cost.

9. Sum Total Parts Cost

Aggregate all individual part costs used during the repair to get a total material expense.

10. Update Final Work Order Cost

Update the Work Order entry with the calculated total cost.

11. Rework Task (If Failed)

If the QC inspection fails, create a follow-up repair task for the technician.

12. Notify Customer of Completion

Send an automated email to the customer notifying them that the repair is finished and passed inspection.

13. Notify Manager of Failed QC

Send an alert to the Service Manager if a quality control inspection fails.

14. Close Work Order

Update the Work Order status to 'Closed' and set the completion date.

15. Generate Monthly Repair Efficiency Report

Create a report summarizing completed repairs, pass rates, and average repair time for the period.

End

End of the Workflow/Process.