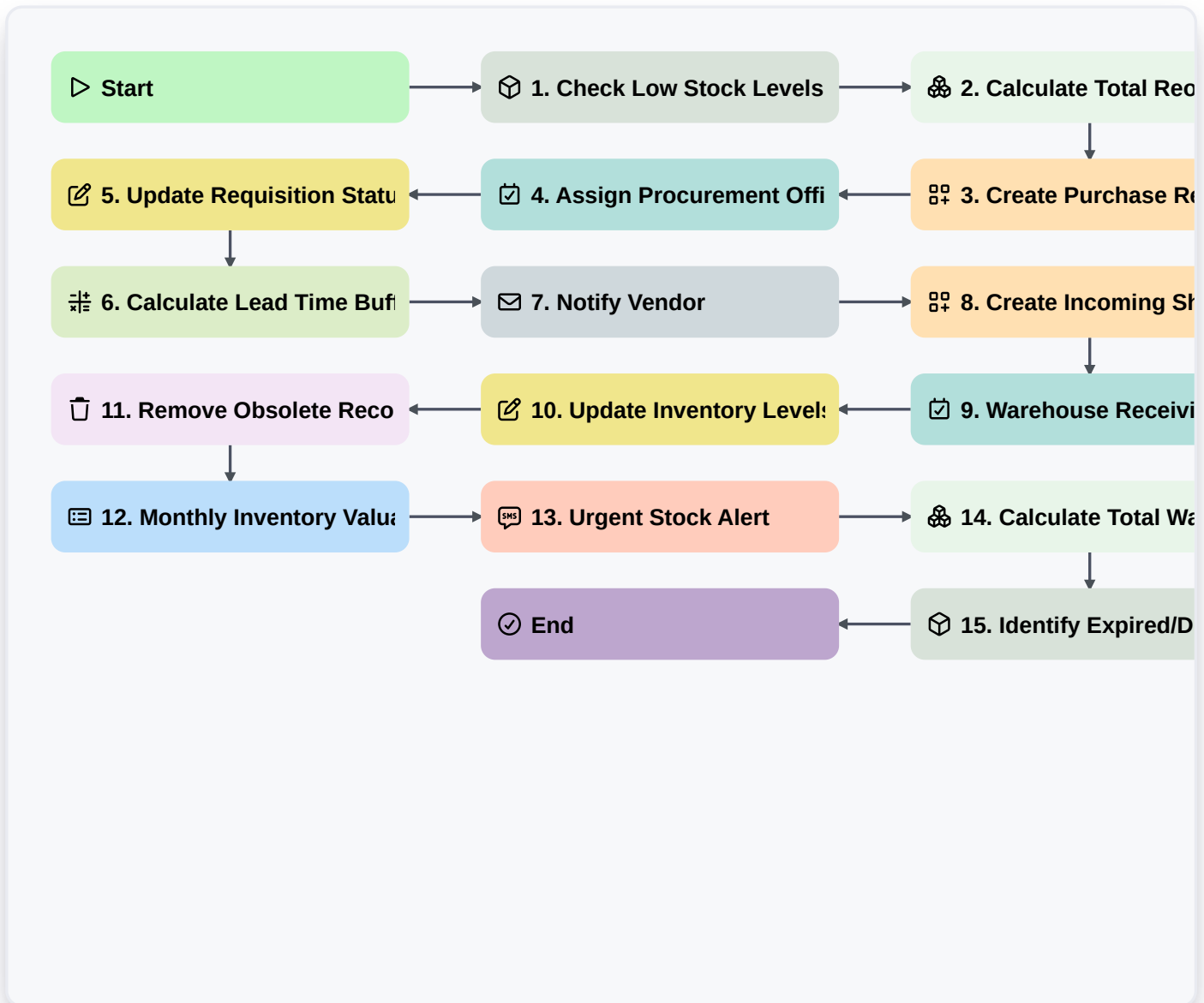


MRO Inventory Control Workflow



Start

Start of the Workflow/Process.

1. Check Low Stock Levels

Retrieve all inventory entries where current stock is below the defined reorder point.

2. Calculate Total Reorder Value

Sum the estimated cost of all items identified for reordering to determine budget requirements.

3. Create Purchase Requisition

Create a new entry in the Purchase Requisition data model for approved low-stock items.

4. Assign Procurement Officer

Create a task for the Procurement Manager to review and approve the newly created requisition.

5. Update Requisition Status

Update the status of the Purchase Requisition entry to 'Approved' or 'Rejected' based on task outcome.

6. Calculate Lead Time Buffer

Calculate the new safety stock level by adding a buffer percentage to the existing reorder point.



7. Notify Vendor

Send an automated email to the supplier with the details of the approved Purchase Requisition.

8. Create Incoming Shipment Log

Create a placeholder entry in the Shipment Tracking model once the order is placed.

9. Warehouse Receiving Task

Create a task for the Warehouse Clerk to inspect and verify items upon physical arrival.

10. Update Inventory Levels

Increase the 'Quantity on Hand' in the Inventory data model after the shipment is verified.

11. Remove Obsolete Records

Delete or archive inventory entries that have been marked as 'Disposed' or 'Scrapped'.

12. Monthly Inventory Valuation Report

Generate a comprehensive report summarizing total stock value, turnover rate, and discrepancies.

13. Urgent Stock Alert

Send an SMS to the Warehouse Manager if a critical 'Part A' item hits zero stock.

14. Calculate Total Warehouse Value

Aggregate all entries in the Inventory model to calculate the total capital tied up in stock.

15. Identify Expired/Degraded Items

Retrieve items from the data model where the 'Expiry Date' or 'Condition Date' has passed.

End

End of the Workflow/Process.