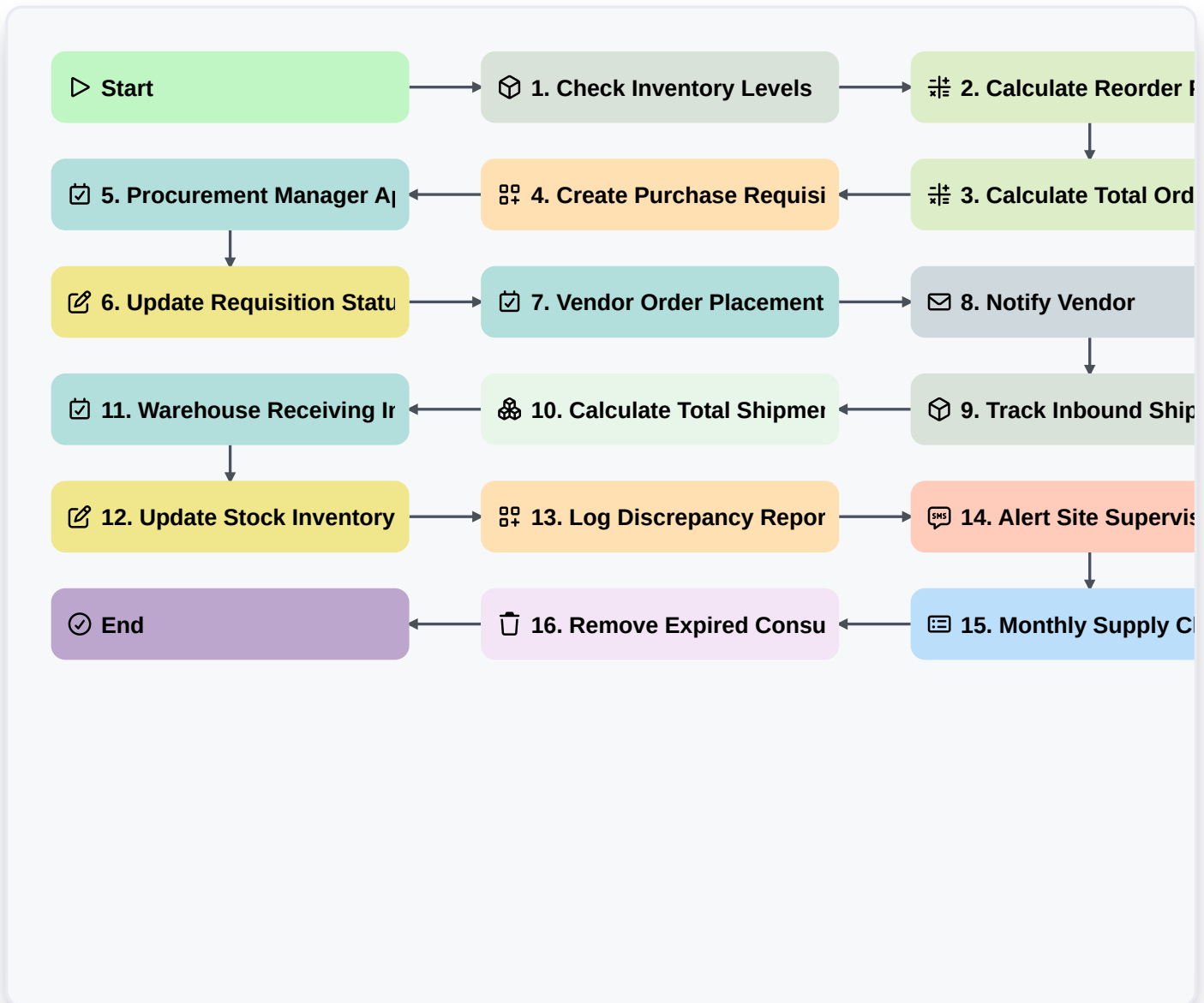


Mine Site Logistics & Supply Chain



▷ Start

Start of the Workflow/Process.

📦 1. Check Inventory Levels

Retrieve current stock levels for essential mining consumables from the Inventory Data Model.

📊 2. Calculate Reorder Point

Calculate the threshold for reordering by adding safety stock to the average lead time demand.

📊 3. Calculate Total Order Value

Multiply unit prices by requested quantities for all items in the procurement request.

📄 4. Create Purchase Requisition

Generate a new entry in the Purchase Requisition data model based on low stock alerts.

📄 5. Procurement Manager Approval

Assign a task to the Procurement Manager to review and approve the new requisition.

📄 6. Update Requisition Status

Change the status of the Purchase Requisition from 'Pending' to 'Approved' or 'Rejected'.



7. Vendor Order Placement

Create a task for the Logistics Clerk to send the official Purchase Order to the selected vendor.

8. Notify Vendor

Send an automated email to the vendor containing the approved Purchase Order details.

9. Track Inbound Shipment

Retrieve shipment tracking data and ETA from the Logistics/Carrier data model.

10. Calculate Total Shipment Weight

Sum the weight of all individual items within an incoming shipment entry.

11. Warehouse Receiving Inspection

Assign a task to the Warehouse Operator to inspect goods upon arrival at the mine site.

12. Update Stock Inventory

Increment the quantities in the Inventory Data Model upon successful inspection and receipt.

13. Log Discrepancy Report

Create a new entry in the Discrepancy/Damage log if items are found broken or missing.

14. Alert Site Supervisor

Send an SMS to the Site Supervisor if a critical supply shortage is detected.

15. Monthly Supply Chain Performance Report

Generate a report summarizing vendor lead times, stockouts, and total spend for the month.

16. Remove Expired Consumables

Delete or archive entries from the Inventory model for items that have exceeded their shelf life.

End

End of the Workflow/Process.