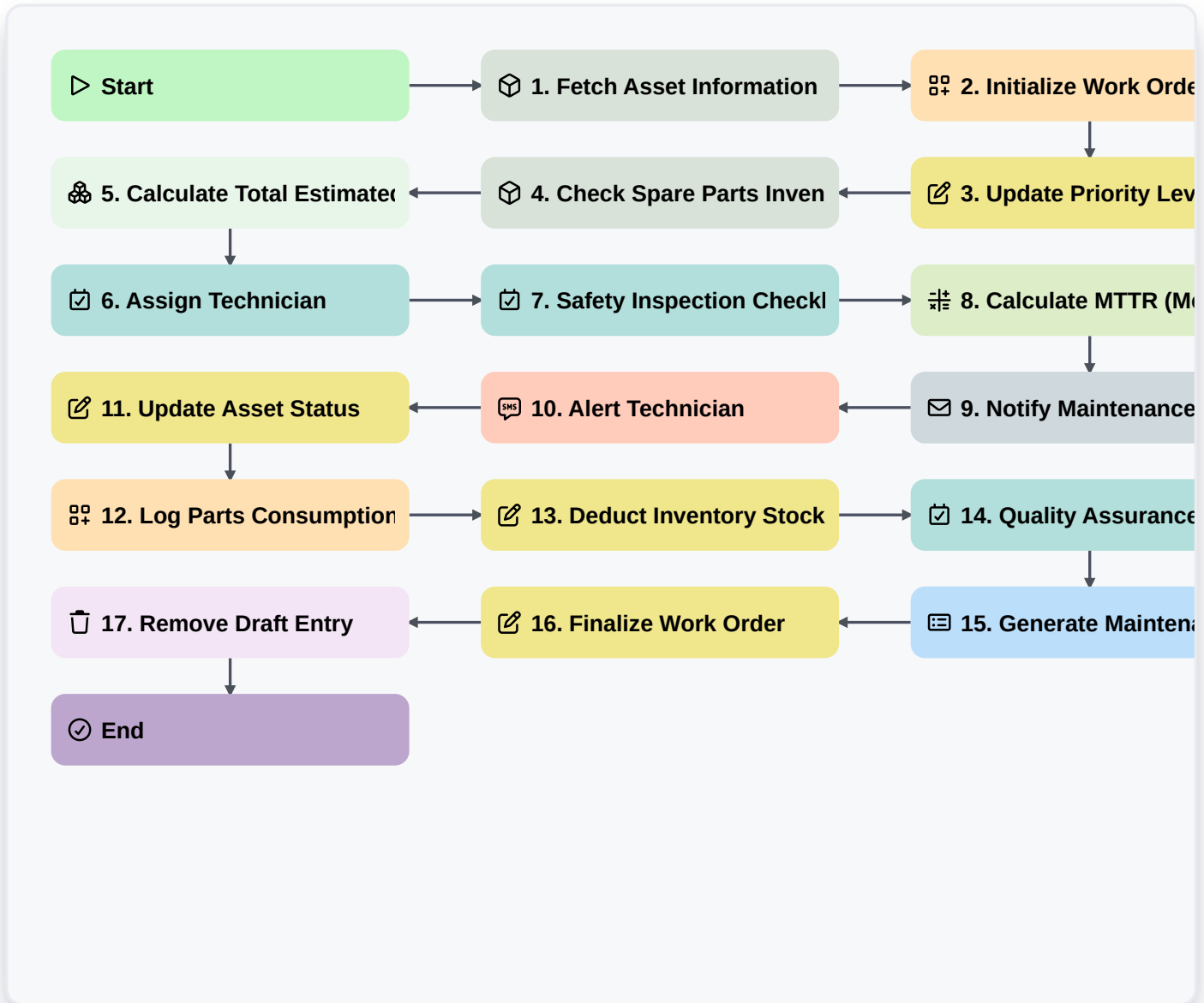


# Corrective Maintenance Work Order Process



## Start

Start of the Workflow/Process.

## 1. Fetch Asset Information

Retrieve technical specifications and maintenance history from the Assets Data Model based on the ID provided in the Work Order.

## 2. Initialize Work Order Entry

Create a new record in the Work Order Data Model with initial status 'New' and the reported issue description.

## 3. Update Priority Level

Update the priority field in the Work Order entry based on the severity of the reported fault.

## 4. Check Spare Parts Inventory

Retrieve current stock levels for required components from the Inventory Data Model.

## 5. Calculate Total Estimated Cost

Sum the costs of parts and labor hours to provide an estimated budget for the repair.

## 6. Assign Technician

Create a task for a qualified technician containing the asset details and repair instructions.



### **7. Safety Inspection Checklist**

Generate a mandatory task with a checklist to ensure all LOTO (Lockout-Tagout) procedures are followed.

### **8. Calculate MTTR (Mean Time to Repair)**

Calculate the duration between 'Work Order Start' and 'Work Order Completion' timestamps.

### **9. Notify Maintenance Manager**

Send an email alert to the manager when a high-priority corrective order is created.

### **10. Alert Technician**

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

### **11. Update Asset Status**

Change the status of the associated Asset in the Asset Data Model to 'Under Repair' or 'Out of Service'.

### **12. Log Parts Consumption**

Create entries in the Parts Consumption Data Model to track which parts were used during the repair.

### **13. Deduct Inventory Stock**

Update the quantity of used parts in the Inventory Data Model to reflect the consumption.

### **14. Quality Assurance Review**

Create a final verification task for the supervisor to confirm the repair meets safety standards.

### **15. Generate Maintenance Summary Report**

Generate a PDF report summarizing the work performed, parts used, and total downtime for the completed Work Order.

### **16. Finalize Work Order**

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

### **17. Remove Draft Entry**

Delete the temporary draft entry if the maintenance request is cancelled before official approval.

### **End**

End of the Workflow/Process.