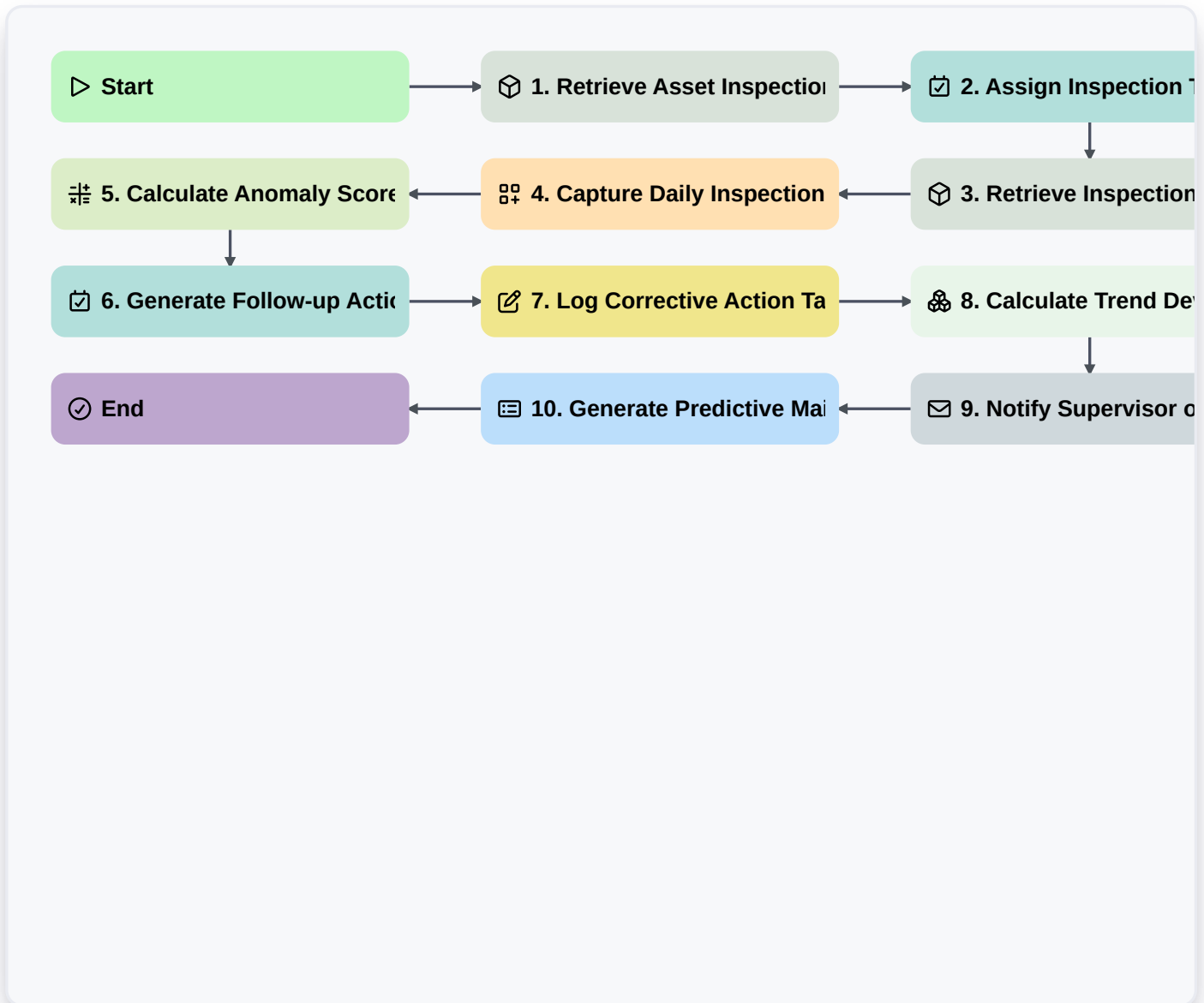


# Industrial Equipment Inspection Workflow: Predictive Maintenance & Compliance Management



▷ **Start**

Start of the Workflow/Process.

 **1. Retrieve Asset Inspection Records**

Fetch existing inspection records and associated asset details based on asset ID or location.

 **2. Assign Inspection Task to Technician**

Automatically create a new inspection task assigned to the responsible technician for the specific asset.

 **3. Retrieve Inspection Checklist Template**

Fetch the standardized, up-to-date inspection checklist template for the asset type.

 **4. Capture Daily Inspection Readings**

Create new data entries for readings (e.g., temperature, vibration, visual checks) based on the current inspection.

### **5. Calculate Anomaly Score**

Execute a formula to score the overall health or deviation risk based on collected readings (e.g., weighted average of tolerances).

### **6. Generate Follow-up Action Items**

Create follow-up tasks automatically if the Anomaly Score exceeds the defined threshold.

### **7. Log Corrective Action Taken**

Allow the technician to update the inspection entry with details of any immediate corrective actions performed.

### **8. Calculate Trend Deviation**

Aggregate historical data entries to compare current readings against long-term performance averages (Min/Max/Avg).

### **9. Notify Supervisor of Critical Finding**

Send an immediate email alert to the maintenance supervisor if any critical failure criteria are met.

### **10. Generate Predictive Maintenance Report**

Compile a comprehensive report including all data, findings, calculated risks, and required sign-offs.

### **End**

Start of the Workflow/Process.