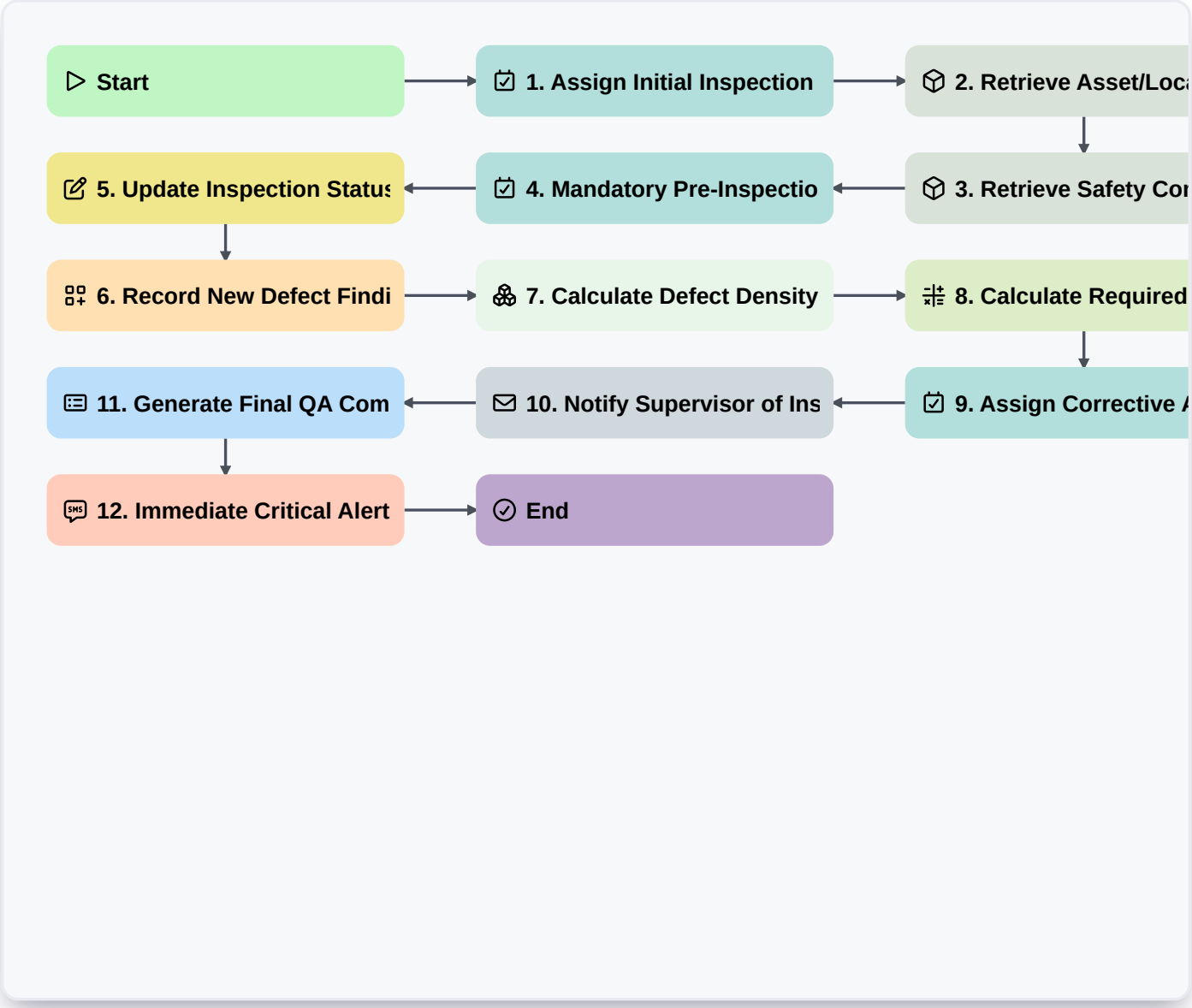
ChecklistGuro

Automated Inspection Workflow Management For Quality Assurance



Start
Start of the Workflow/Process.

1. Assign Initial Inspection Task
Automatically generate and assign the primary inspection checklist task to the designated inspector upon start.

2. Retrieve Asset/Location Data
Fetch necessary parameters (e.g., asset ID, location details) from the core data model to pre-populate the inspection workflow.

3. Retrieve Safety Compliance History
Gather historical safety inspection records associated with the inspected area for cross-reference.

4. Mandatory Pre-Inspection Task Notification
Create a prerequisite task requiring sign-off (e.g., 'Equipment Powered Down') before inspection tasks become active.

5. Update Inspection Status
Update the central asset record's status from 'Pending Inspection' to 'In Progress' upon workflow initiation.

6. Record New Defect Finding
Create a new data entry record when a specific checklist item fails inspection, logging details like failure code and photos.

7. Calculate Defect Density Score
Aggregate all 'Defect Finding' entries to calculate a summary score (e.g., total non-conformities per inspection hour).

8. Calculate Required Follow-up Time
Execute a formula based on the severity of aggregated defects to determine the estimated time needed for corrective action.

9. Assign Corrective Action Task
Automatically generate a follow-up task assigned to the maintenance team, referencing the created defect finding entry.

10. Notify Supervisor of Inspection Completion
Send an email summary of the inspection findings (Pass/Fail summary) to the supervisor upon completion.

11. Generate Final QA Compliance Report
Compile all gathered data (checklists, defects, signatures) into a standardized, downloadable Quality Assurance Report.

12. Immediate Critical Alert SMS
Send an urgent SMS notification to the site manager if a critical safety failure (Severity 1) is recorded.

End
Start of the Workflow/Process.