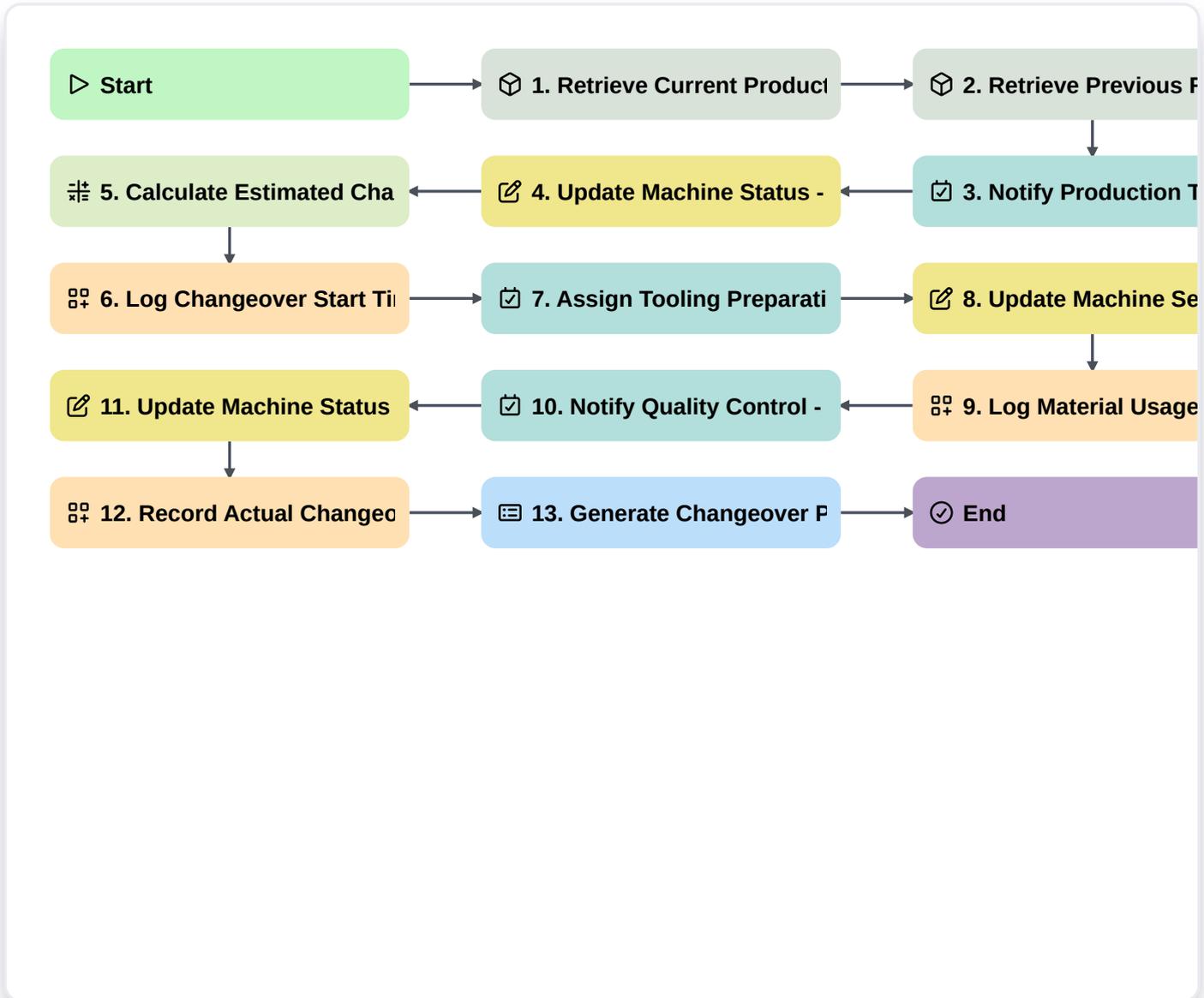


Production Run Changeover Workflow Optimization



Start

Start of the Workflow/Process.

1. Retrieve Current Production Schedule

Fetches the scheduled production run and its associated details from the Production Schedule Data Model.

2. Retrieve Previous Run Data

Retrieves data from the previous production run, including setup times, downtime, and resource usage, from the Historical Production Data Model.

3. Notify Production Team - Changeover Start

Creates a task assigned to the Production Team to initiate the changeover process.

4. Update Machine Status - Preparing

Updates the status of the targeted machine in the Machine Status Data Model to 'Preparing for Changeover'.

5. Calculate Estimated Changeover Time

Calculates the estimated changeover time based on machine type, product complexity and historical data.

6. Log Changeover Start Time

Creates a new entry in the Changeover Log Data Model, recording the official start time of the changeover.

7. Assign Tooling Preparation Task

Creates a task to prepare necessary tooling and attachments for the next production run.

8. Update Machine Settings - New Product

Updates machine parameters (speed, temperature, etc.) for the new product based on engineering specifications.

9. Log Material Usage

Logs the material consumption during the changeover process.

10. Notify Quality Control - Inspection Required

Assigns a task to Quality Control to perform a post-changeover inspection.

11. Update Machine Status - Running

Updates the machine status in the Machine Status Data Model to 'Running' after changeover completion.

12. Record Actual Changeover Time

Logs the actual time taken for the changeover, for future analysis and optimization.

13. Generate Changeover Performance Report

Creates a report summarizing changeover time, downtime, and any issues encountered.

End

Start of the Workflow/Process.