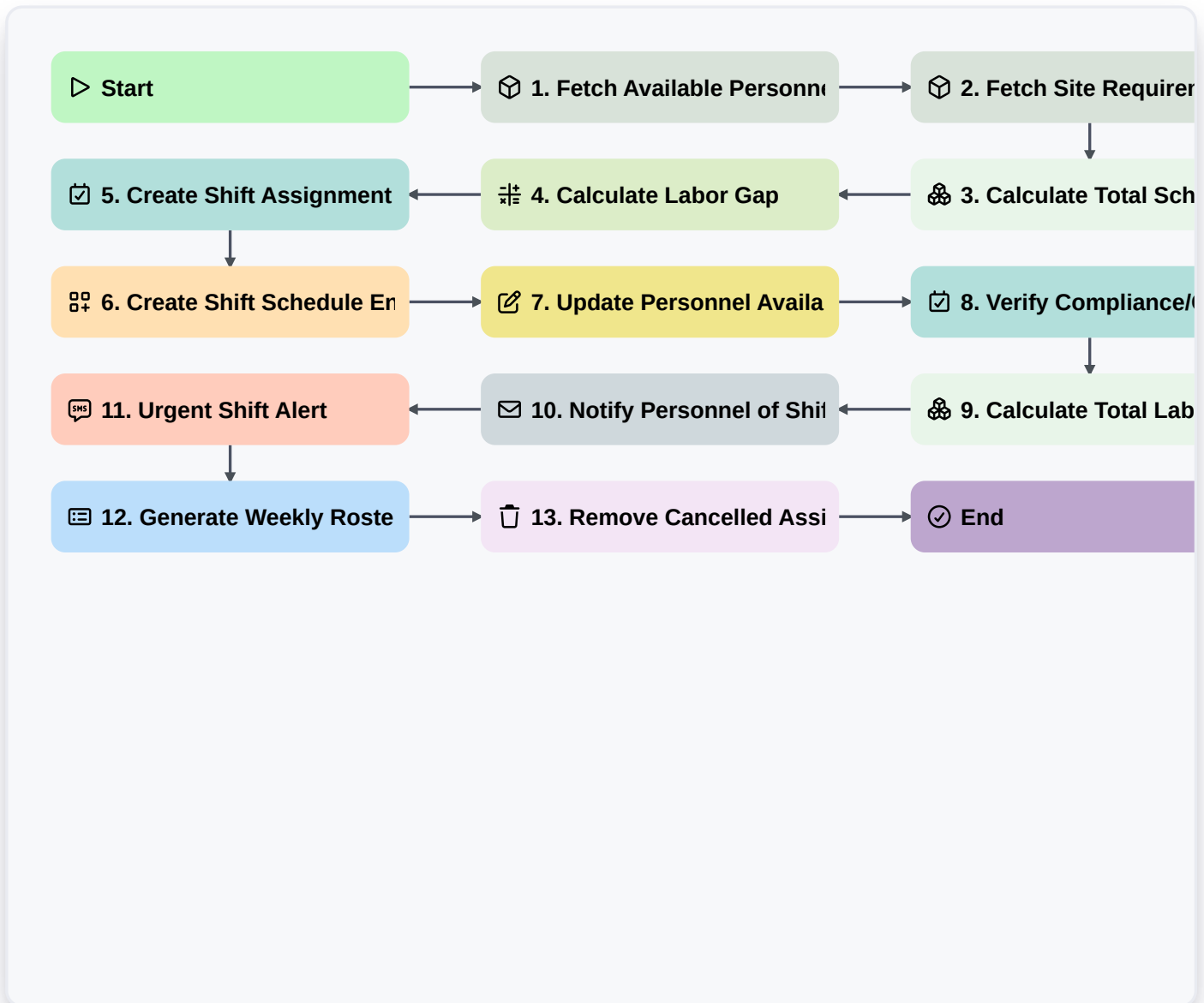


# Mine Site Labor & Shift Scheduling



## ▷ Start

Start of the Workflow/Process.

## 📦 1. Fetch Available Personnel

Retrieve all active employees from the Personnel Data Model with their current availability status.

## 📦 2. Fetch Site Requirements

Retrieve the required headcount and specific skill requirements for the upcoming shift.

## 🔗 3. Calculate Total Scheduled Hours

Sum the total hours of all currently assigned staff to ensure they do not exceed safety fatigue limits.

## 🔗 4. Calculate Labor Gap

Subtract Total Scheduled Hours from Required Shift Hours to identify if more staff are needed.

## 📋 5. Create Shift Assignment Task

Assign a task to the Site Supervisor to assign staff to the identified gaps.

## 📋 6. Create Shift Schedule Entry

Create a new record in the Shift Schedule Data Model once names and times are finalized.



### **7. Update Personnel Availability**

Update the 'Status' field in the Personnel Data Model to 'Scheduled' for the assigned workers.

### **8. Verify Compliance/Certification**

A sub-task to check if the assigned personnel have valid safety certifications for the specific mine zone.

### **9. Calculate Total Labor Cost**

Aggregate the hourly rates of all assigned personnel to estimate the cost of the shift.

### **10. Notify Personnel of Shift**

Send an automated email to all assigned employees with their start time, location, and task details.

### **11. Urgent Shift Alert**

Send an SMS to workers if there is a last-minute change or emergency shift call-in.

### **12. Generate Weekly Rostering Report**

Generate a summary report showing scheduled vs. actual headcount for the management review.

### **13. Remove Cancelled Assignments**

Delete entries from the Shift Schedule Data Model if a shift is cancelled due to site closure or weather.

### **End**

End of the Workflow/Process.