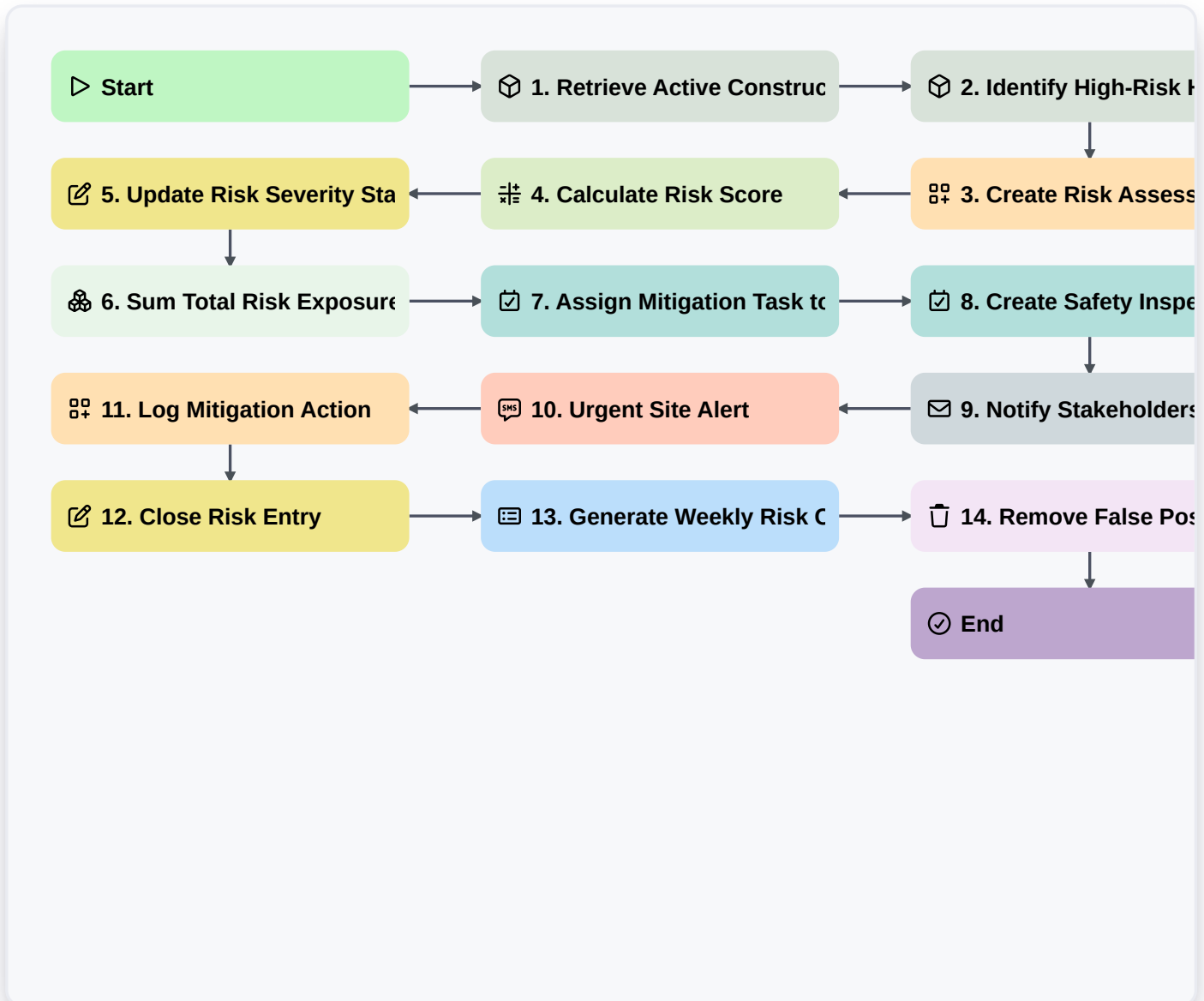


Construction Risk Management And Mitigation Workflow



Start

Start of the Workflow/Process.

1. Retrieve Active Construction Projects

Fetch all current project entries to identify which sites are subject to upcoming risk assessments.

2. Identify High-Risk Hazards

Retrieve all identified hazards from the Hazard Log data model that have not yet been mitigated.

3. Create Risk Assessment Record

Generate a new Risk Assessment entry in the Risk Management data model when a new hazard is detected.

4. Calculate Risk Score

Calculate the Risk Priority Number (RPN) by multiplying Probability x Severity x Detectability.

5. Update Risk Severity Status

Update the Risk entry with the newly calculated risk score and criticality level.



6. Sum Total Risk Exposure Value

Aggregate the financial impact values of all 'High' priority risks to determine total potential loss.

7. Assign Mitigation Task to Site Manager

Create a task for the assigned Site Manager to develop a mitigation plan for high-score risks.

8. Create Safety Inspection Task

Generate a recurring inspection task for the Safety Officer to verify site compliance.

9. Notify Stakeholders of High Risk

Send an automated email alert to Project Directors when a risk score exceeds the established threshold.

10. Urgent Site Alert

Send an SMS notification to the On-site Supervisor if a critical/imminent danger risk is identified.

11. Log Mitigation Action

Create a new entry in the Mitigation Log to document the steps taken to reduce the risk.

12. Close Risk Entry

Update the Risk entry status to 'Mitigated' or 'Closed' once all mitigation tasks are completed.

13. Generate Weekly Risk Compliance Report

Generate a summary report of all active risks, mitigation progress, and outstanding tasks for the weekly safety meeting.

14. Remove False Positive Risks

Delete risk entries that were identified in error during the assessment process.

End

End of the Workflow/Process.