CONCRETE CONTRACTORS · FLEET AND EQUIPMENT OPERATIONS

Equipment maintenance scheduling

This workflow automatically schedules equipment maintenance based on usage hours and project completion data, ensuring concrete equipment stays operational and minimizes costly downtime. It integrates with project management systems to optimize maintenance timing around job schedules.

01 WORKFLOW TRIGGER

Equipment usage hours reach predetermined maintenance threshold or project completion milestone is logged

BLUEPRINT OVERVIEW

What this workflow accomplishes

This workflow ties equipment telematics and manual hour logs in Foundation Software to the pour calendar in STACK Construction and the work order and cost ledgers in Sage 100 Contractor and QuickBooks Contractor Edition. Automation watches usage hours, finds the maintenance window between scheduled pours, writes the work order, books the vendor or in-house mechanic, and reshuffles equipment allocations. The equipment manager, superintendent, and controller keep authority over urgency calls, pour-day equipment swaps, and any spend above the parts and labor threshold.

01

OUTPUTS

Booked service appointments, vendor confirmed, Revised pour schedule, equipment reassigned, Maintenance cost estimate and budget impact, Updated equipment maintenance log

02

SUCCESS MEASURES

Equipment downtime reduction percent, Maintenance cost per equipment hour, Pour schedule adherence rate, Overdue service intervals open

03

CORE SYSTEMS

Foundation Software, STACK Construction, Sage 100 Contractor, QuickBooks Contractor Edition

HOW TO USE THIS BLUEPRINT

Business leaders: read the objective and the metrics panel, then set the dollar threshold above which the controller must approve a work order before it goes to a vendor.

Field supervisors: walk stages 5 through 7 with your superintendents so everyone knows who confirms an equipment swap before a pour and who signs off on the service ticket.

Implementation teams: build to the stage list and the implementation checks, especially hour-meter mapping by serial number and approval routing on work orders.

THE WORKFLOW

End-to-end stage map

Seven stages carry a mixer, pump, or power trowel from an hour threshold to a booked service appointment and an updated pour schedule. The decision point at stage three governs whether the machine comes off the job now or waits for the next gap between pours.

IMPLEMENTATION DETAIL

Stage-by-stage breakdown

Each stage states the operational intent, the human control point, and the systems likely to take part. System names are examples, not a required architecture.

01 TRIGGER

Equipment threshold reached

System detects that concrete mixer, pump, or finishing equipment has reached scheduled maintenance hours or completed a major pour project. Usage data is automatically pulled from equipment telematics or manual job logging.

CONTROL POINT

The equipment manager reviews flagged units each morning and can dismiss a false trigger caused by a bad hour meter or a mislogged pour ticket.

SYSTEMS Foundation Software · STACK Construction

02 ACTION

Check upcoming project schedule

System queries project management database to identify scheduled concrete pours and equipment assignments for the next 2-4 weeks. This ensures maintenance doesn't conflict with critical job deadlines.

CONTROL POINT

The superintendent confirms the pour dates pulled from STACK are current, including any pours moved for weather or inspection holds.

SYSTEMS Foundation Software · Sage 100 Contractor

03 DECISION

Evaluate maintenance urgency level

Workflow determines if maintenance is critical (safety/breakdown risk) requiring immediate scheduling, or routine maintenance that can be optimized around project timelines. Decision branches based on equipment condition and usage intensity.

CONTROL POINT

The equipment manager owns the urgency call and can override the system rating after a walkaround on hydraulic leaks, drum wear, or boom condition.

SYSTEMS Foundation Software

04 ACTION

Generate maintenance work order

System creates detailed maintenance work order with equipment specifications, required parts, estimated labor hours, and preferred service dates. Work order includes equipment serial numbers and maintenance history.

CONTROL POINT

The controller approves any work order whose parts and labor estimate exceeds the set threshold before it leaves the office.

SYSTEMS Sage 100 Contractor · QuickBooks Contractor Edition

COMPLETION AND MEASUREMENT

Closing stages and results

The last three stages protect the pour schedule, move crews and backup equipment, and leave a cost and compliance record management can read.

05 ACTION

Schedule maintenance appointment

System automatically contacts preferred equipment service vendors or schedules internal maintenance crew based on availability and maintenance window identified. Confirmation and calendar integration occurs automatically.

CONTROL POINT

The equipment manager confirms the vendor appointment and shop location before the calendar hold becomes final.

SYSTEMS Foundation Software, Sage 100 Contractor

06 ACTION

Update project crew assignments

Workflow automatically adjusts crew dispatch and equipment allocations for affected projects, ensuring backup equipment or alternative scheduling to maintain project timelines. Crew supervisors receive automated notifications.

CONTROL POINT

The superintendent must accept the revised crew dispatch and backup pump or mixer assignment before any pour-day change takes effect.

SYSTEMS Foundation Software, STACK Construction

07 OUTPUT

Generate maintenance tracking report

System produces comprehensive maintenance schedule with cost estimates, project impact assessment, and equipment availability timeline for management review. Updates equipment maintenance logs and compliance tracking.

CONTROL POINT

The controller reviews cost coding to job or overhead and signs the report before it posts to the equipment maintenance log.

SYSTEMS Sage 100 Contractor, QuickBooks Contractor Edition

DELIVERABLES

- Booked service appointments, vendor confirmed
- Revised pour schedule, equipment reassigned
- Maintenance cost estimate and budget impact
- Updated equipment maintenance log

KEY METRICS

- Equipment downtime reduction percent
- Maintenance cost per equipment hour
- Pour schedule adherence rate
- Overdue service intervals open

IMPLEMENTATION CHECKS

- Hour meters mapped to serial numbers
- Work order approval dollar threshold
- Vendor contact and rate list current
- Maintenance history retained per unit
- Supervisor notification routing verified

NEXT STEP

Turn this blueprint into an implementation plan.

Map each stage to your own systems, permissions, and approval routing before selecting tools or building automation.

packfoundry.app/assessment

CONCRETE CONTRACTORS WORKFLOW PACKS AND A FREE ASSESSMENT