



# SSCI Construction AI Prompt Pack

Purpose: Copy/paste prompts for using SSCI check-in exports with AI tools (ChatGPT, Gemini, Claude) to surface schedule risks, inefficiencies, cost drivers, and data quality gaps.

## How to use (quick start)

1. Upload your **SSCI check-in export** (CSV or Excel).
2. (Optional) Upload your **project schedule** (PDF or XLSX).
3. (Optional) Upload **budget vs. actual** or cost report exports.
4. Paste one prompt at a time below.

**Privacy + accuracy note:** Remove/replace names if needed, and ask the AI to anonymize people/companies in its output. Check-in data is a proxy for activity; it can miss work done under different labels or outside normal check-in behavior.

## Prompt 1: “Start Here” Dataset Audit + Executive Summary

### Goal

Get a fast baseline summary plus data quality issues that could distort reporting.

### Prompt (copy/paste)

You are a construction operations analyst. Review the uploaded check-in export and produce:

- 1) A one-page executive summary (jobsite activity volume, top sites, top companies, top roles/trades).
- 2) Data quality issues that could distort reporting (duplicate company spellings, missing fields, inconsistent activity labels, missing check-outs).
- 3) A prioritized list of “quick wins” to improve data integrity in the next 7 days.

Requirements: do not include any personally identifiable information in the output; anonymize names as Worker A, Worker B, etc. Use bullets and tables where helpful.

## Prompt 2: Daily Workforce Trend + “Momentum” Alerts

### Goal

Spot workforce “ghosting” or unexpected ramps/drops that indicate schedule or productivity risk.

### Prompt (copy/paste)

From the check-in data, calculate daily headcount by date for each jobsite and overall. Identify:

- Any 3-day or 5-day rolling declines greater than 25%
- Any sudden drops that occur near major project transitions (if a

schedule is uploaded, align to milestone dates)  
- The top 3 sites with the biggest headcount volatility  
Output: a short narrative summary + a table with date ranges, site, headcount start/end, percent change, and a plain-English "why it matters."

### Prompt 3: Trade Coverage Check (Are the right trades showing up?)

#### Goal

Validate whether the right subcontractors/trades are appearing when expected for the project phase.

#### Prompt (copy/paste)

Analyze check-ins by trade/activity and company. For each jobsite, list:

- Top 10 activities/trades by frequency
- Trades expected on a typical healthcare build-out (rough-in vs finish) and whether check-ins suggest we are still rough-in heavy
- Any critical trades that appear missing or underrepresented for the current phase

Give "follow-up questions I should ask the superintendent" based on gaps you find.

### Prompt 4: Schedule Variance Finder (Gate Items + Inspections)

#### Goal

Cross-reference schedule milestones to check-in signals and flag gate items (inspections, pours, closeouts) at risk.

#### Prompt (copy/paste)

Cross-reference the uploaded schedule with check-in activity for the same project. Treat the schedule as a snapshot as of its publish date. Then:

- 1) Identify the next 14 days of milestones (especially inspections / permits / pour dates / closeout gates).
- 2) For each milestone, assess whether recent check-ins show supporting activity (relevant trades present in the last 7 days).
- 3) Flag milestones at risk with a confidence level (High/Med/Low) and explain the reasoning in 1-2 sentences each.

Output a table: Milestone | Date | Required trade signals | Observed check-in signals | Risk | Suggested action.

### Prompt 5: "Inspection Readiness" Checklist Generator

#### Goal

Turn risk flags into a clear superintendent-ready checklist and communications templates.

#### Prompt (copy/paste)

Based on check-in trends and the upcoming schedule milestones, generate an "Inspection Readiness" checklist for the next 7-10 days. Include:

- What to confirm (passed / scheduled / rescheduled)

- What evidence to gather (photos, sign-offs, inspector name, permit number)
  - Which subcontractors must be on site beforehand
- Also include 5 email/text templates I can send to subs to confirm readiness (short, professional).

## Prompt 6: Budget Variance Spotlight (Budget vs Actual)

### Goal

Find the biggest variances and connect likely drivers using check-in patterns.

### Prompt (copy/paste)

Analyze the cost report and identify the top 10 budget variances (over and under). Then connect likely drivers using check-in patterns:

- Are cost overruns correlated with extended durations, repeated rework signals, or high supervision presence?
- Are there phases where supervision hours are rising while field headcount is falling?

Output: a ranked list of variances with probable drivers, plus the 5 most important questions to ask the PM and superintendent this week.

## Prompt 7: Supervision Burn Rate Watch (PM + Superintendent)

### Goal

Detect cost bleed from extended duration and identify operational interventions.

### Prompt (copy/paste)

Using check-ins (and financials if provided), assess supervision load and burnout risk:

- Identify "always-on" individuals (high-frequency check-ins) and whether they're covering multiple sites
- Estimate supervision intensity trends (days/week on site, early start times, weekends)
- Explain how schedule slippage amplifies supervision costs (simple model assumptions are fine)

Output: a short report + recommended interventions (delegation, targeted status checks, tightening gate item tracking).

## Prompt 8: Missing Check-Outs (Compliance + Safety + Productivity)

### Goal

Quantify check-out compliance gaps and produce a 2-week improvement plan with KPIs.

### Prompt (copy/paste)

Calculate check-out compliance rates by jobsite, company, and activity. Identify:

- Worst 5 companies for missing check-outs
- Worst 5 sites for missing check-outs
- Whether missing check-outs cluster by time of day or day of week

Then propose a 2-week improvement plan with:

- policy language (short)
- in-app reminders or procedural changes (generic is fine)
- KPI targets and how to track them weekly

## Prompt 9: Anomaly Detection (Suspicious or unusual patterns)

### Goal

Catch patterns that are not obviously schedule-related but may indicate risk, rework, or access issues.

### Prompt (copy/paste)

Identify anomalies in the check-in dataset, such as:

- unusually early/late check-ins
  - unexpected weekend activity
  - companies showing up on sites they rarely visit
  - repeated short visits (possible rework / inspections / deliveries)
- Provide a table of anomalies and a hypothesis for each, plus recommended follow-up actions.

## Prompt 10: Executive “Portfolio View” (multi-site rollup)

### Goal

Produce a weekly COO-level operations brief across all jobsites.

### Prompt (copy/paste)

Create a portfolio-level weekly operations brief across all jobsites using the check-in data (and schedule/costs if present). Include:

- Top 3 sites to watch (and why)
- Biggest workforce shifts week-over-week
- Inspection/gate risks and where supporting trade signals are missing
- Data quality issues that could mislead leadership

Keep it concise, in an executive tone, and end with “Decisions to make this week.”

## Prompt 11: ROI Narrative Builder (for internal buy-in)

### Goal

Help teams justify the SSCI + AI workflow internally with a simple ROI framework.

### Prompt (copy/paste)

Write an ROI narrative explaining how AI + check-in data can reduce:

- schedule slip risk (gate items)
- supervision overhead
- rework and remobilization
- compliance exposure (audit trail, occupancy accountability)

Use realistic construction language and include a simple ROI framework (assumptions + ranges). Do not use specific company names.

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## Prompt 12: Turn Findings into a PM Meeting Agenda (15 minutes)

### Goal

Convert the top risk signals into a short, action-oriented weekly agenda.

### Prompt (copy/paste)

Turn the highest-risk findings into a 15-minute weekly meeting agenda for PM + Superintendent. Include:

- 5 questions to ask
- what data/evidence to bring
- decisions to make
- owners and due dates

Format as a tight agenda with bullet points.

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**Packaging tip:** Add this prompt pack as a downloadable PDF gated behind your blog CTA (e.g., “Get the Prompt Pack”).

**Disclaimer:** AI outputs depend on data quality and should be validated by project leadership.