

Industrial IoT and Maintenance Results Interpretation Guide - Run a Monthly Review

Industrial IoT and Maintenance | Run a Monthly Review | Asset ID TJ-19-05-15

Do not bypass guards, interlocks or isolation. Equipment diagnosis and energised testing require site procedures, competent personnel and manufacturer information.

Purpose and working method

This independent, printable companion helps you connect asset condition, operating context, evidence and action without guesswork while working toward one outcome: create a short recurring review focused on decisions and trends. Use a suitable calculator or utility for computation, then use these pages to preserve meaning, assumptions, checks and decisions. A number alone is not a decision record; a useful record shows where the inputs came from, why the method fits and what would make the result unsafe or misleading.

Project snapshot	Record
Project or question	_____
Prepared by / date	_____
Decision owner	_____
Intended outcome	Run a Monthly Review
Tool or method used	Name and version/date: _____
Authoritative source	Title, owner and access date: _____
Review deadline	_____

Domain readiness map

#	Input area	Current state	Trace
1	Asset and function	Known / estimated / missing	Source: _____
2	Operating state	Known / estimated / missing	Source: _____
3	Sensor or event evidence	Known / estimated / missing	Source: _____
4	Maintenance history	Known / estimated / missing	Source: _____
5	Environment and load	Known / estimated / missing	Source: _____
6	Action and verification	Known / estimated / missing	Source: _____

Results Interpretation Guide

This working page applies the results interpretation guide format to run a monthly review. Complete it before polishing a conclusion. The useful evidence is period totals, exceptions, comparison and assigned actions; the governing rule is: close each review with owners and dates, not observations alone.

Result element	Plain meaning	Limit	Implication
Asset and function	separate the output from the conclusion	_____	_____
Operating state	separate the output from the conclusion	_____	_____
Sensor or event evidence	separate the output from the conclusion	_____	_____
Maintenance history	separate the output from the conclusion	_____	_____
Environment and load	separate the output from the conclusion	_____	_____
Action and verification	separate the output from the conclusion	_____	_____

Completion standard

- Write real units, dates and source owners; avoid labels such as normal, typical or standard without a definition.
- Mark estimates as estimates. Record a range when a single value would imply false precision.
- Keep an untouched copy of source data and give every working version a date or revision.
- Record contrary evidence. A workbook that only supports the preferred answer is not a reliable check.
- Remove personal, confidential or security-sensitive details that are unnecessary for the decision.

Input and Data Map

Privacy gate: minimise personal, confidential and security-sensitive information. If a value can identify a person, account, location or protected system, use an approved environment and retention rule.

#	Data element	Minimum validation	Source	Status
1	Asset and function	identity and date	Owner: _____	Ready / gap
2	Operating state	definition and unit	Owner: _____	Ready / gap
3	Sensor or event evidence	range and precision	Owner: _____	Ready / gap
4	Maintenance history	missing-value rule	Owner: _____	Ready / gap
5	Environment and load	consistency with peers	Owner: _____	Ready / gap
6	Action and verification	fitness for the decision	Owner: _____	Ready / gap

Transformation trail

Stage	Question	Record
Raw input	What arrived before cleaning or conversion?	Location / version: _____
Cleaning	What was removed, repaired or standardised?	Rule: _____
Conversion	Which units, formats or scales changed?	Before / after: _____
Derivation	Which values were calculated from others?	Method: _____
Exclusion	Which records or conditions were left out?	Reason: _____
Final input	What exact dataset or values entered the tool?	Hash / version: _____

Spot-check sample

Sample	Original	Working value	Comparison	Decision
1	Source: _____	Prepared: _____	Difference: _____	Accept / correct
2	Source: _____	Prepared: _____	Difference: _____	Accept / correct
3	Source: _____	Prepared: _____	Difference: _____	Accept / correct
4	Source: _____	Prepared: _____	Difference: _____	Accept / correct

Run a Monthly Review Action Workbook

Use this page to create a short recurring review focused on decisions and trends. The aim is not to fill every blank; it is to expose the few facts that could change the decision. The evidence package should contain period totals, exceptions, comparison and assigned actions.

Action field	Prompt	Record
Decision to support	What choice or action will this work inform?	_____
Audience	Who must understand or approve it?	_____
Success measure	What observable result would count as useful?	_____
Decision date	When is evidence needed, and why then?	_____
Critical assumption	Which belief could reverse the conclusion?	_____
Missing evidence	What is the most important current gap?	_____
Stop condition	What result requires pause or escalation?	_____

Outcome-specific plan

Step	Required action	Record
1. Frame	Restate run a monthly review as a question	Owner / due: _____
2. Gather	Collect period totals, exceptions, comparison and assigned actions	Owner / due: _____
3. Calculate	Use inputs from asset and function and operating state	Method / version: _____
4. Challenge	Test environment and load and action and verification	Reviewer: _____
5. Decide	Close each review with owners and dates, not observations alone	Decision: _____

One-sentence brief

We need to decide _____ by _____. The current evidence suggests _____, but the decision could change if _____. The next owner is _____.

Assumption and Source Register

Source gate: an online result is not automatically authoritative. Record the original owner, document or dataset, publication or revision date, access date and the exact field used. Recheck time-sensitive values before publication or commitment.

ID	Item	Evidence class	Trace	Decision impact
A1	Asset and function	Fact / estimate / assumption	Source: _____	Low / med / high
A2	Operating state	Fact / estimate / assumption	Source: _____	Low / med / high
A3	Sensor or event evidence	Fact / estimate / assumption	Source: _____	Low / med / high
A4	Maintenance history	Fact / estimate / assumption	Source: _____	Low / med / high
A5	Environment and load	Fact / estimate / assumption	Source: _____	Low / med / high
A6	Action and verification	Fact / estimate / assumption	Source: _____	Low / med / high

Units, dates and versions

Control	Review question	Record
Units	Are symbols and conversion factors explicit?	Checked by: _____
Time basis	Instant, daily, monthly, annual or lifecycle?	Basis: _____
Currency / locale	Currency, tax location and rounding rule?	Basis: _____
Version	Which tool, formula, policy or data revision?	Version: _____
Applicability	Why does the method fit this case?	Reason: _____
Exclusions	What important factor is outside the model?	Record: _____

Assumption challenge

- What direct evidence would replace the largest assumption?
- Which assumption is both uncertain and capable of changing the decision?
- Would an independent person interpret every field the same way?
- Has a current authoritative source been checked for rates, limits, laws, standards or safety boundaries?
- Who is qualified to approve this use of the result?

Scenario Comparison Matrix

Scenario work reveals whether run a monthly review stays stable or depends on a narrow assumption. Change a driver deliberately, retain the same definitions and explain why each value is credible. Do not label an optimistic case as expected simply because it is preferred.

Driver	Low / adverse	Working case	High / favourable	Reason
Asset and function	Conservative: _____	Expected: _____	Stretch: _____	Source: _____
Operating state	Conservative: _____	Expected: _____	Stretch: _____	Source: _____
Sensor or event evidence	Conservative: _____	Expected: _____	Stretch: _____	Source: _____
Maintenance history	Conservative: _____	Expected: _____	Stretch: _____	Source: _____
Environment and load	Conservative: _____	Expected: _____	Stretch: _____	Source: _____
Action and verification	Conservative: _____	Expected: _____	Stretch: _____	Source: _____

Outcome comparison

Comparison	Conservative	Expected	Stretch
Calculated result	_____	_____	_____
Time implication	_____	_____	_____
Cost or resource implication	_____	_____	_____
Quality or performance effect	_____	_____	_____
Risk and reversibility	_____	_____	_____
Evidence confidence	Low / medium / high	Low / medium / high	Low / medium / high

Sensitivity note

The conclusion changes most when _____ moves from _____ to _____. That driver is supported by _____. Before commitment, we will _____.

Verification and Decision Gate

High-stakes gate: Do not bypass guards, interlocks or isolation. Equipment diagnosis and energised testing require site procedures, competent personnel and manufacturer information. For any consequential use, a qualified professional must verify the current authoritative source, inputs, method and limits. A completed workbook does not grant legal, financial, medical, engineering, laboratory, security, operational or safety approval.

Gate	Acceptance condition	Status	Evidence
Input trace	Every critical value has a source, date and unit	Pass / gap	_____
Independent check	A second method or reviewer could expose an error	Pass / gap	_____
Applicability	The method fits the case and stated boundary	Pass / gap	_____
Range	A plausible low and high case has been tested	Pass / gap	_____
Contrary evidence	Conflicts are recorded and explained	Pass / gap	_____
Privacy and rights	Sensitive and third-party material is controlled	Pass / gap	_____
Qualified review	Required professional or authorised review is complete	Pass / gap	_____

Decision record

Decision field	Choice	Record
Recommendation	Proceed / revise / pause / reject	Reason: _____
Confidence	Low / medium / high	Evidence: _____
Conditions	What must stay true?	Record: _____
Reversal trigger	What new evidence reopens the decision?	Record: _____
Owner and approval	Who owns the decision and its limits?	Name/date: _____

Final rule

For run a monthly review, close each review with owners and dates, not observations alone. Record the decision separately from the calculation so a later reviewer can distinguish evidence, interpretation, approval and action.

Handover, Reuse and Follow-Up

Close the record so another person can reproduce the work, understand the limits and continue run a monthly review without relying on memory. Keep the smallest useful evidence package, protect sensitive information and give the final file a clear version.

Handover field	Record
Current conclusion	_____
Evidence location	Folder, record or reference: _____
Open question	_____
Decision condition	_____
Next action / owner	_____
Review date	_____
Retention / privacy	Keep until _____; access: _____

Reuse checklist

Reuse gate	Question	Status
Definitions	Are the meanings of asset and function and operating state unchanged?	Yes / update
Sources	Are rates, limits, data and guidance still current?	Yes / update
Context	Does the new case share the same scope and conditions?	Yes / update
Method	Is the chosen tool or method still applicable?	Yes / update
Review	Has the right qualified or authorised person checked it?	Yes / update
Version	Has the reused record received a new date and identifier?	Yes / update

30-day learning loop

- Compare the expected result with what actually happened.
- Record whether an assumption, input definition or method caused avoidable rework.
- Improve one shared field or check; do not add process that supports no decision.
- Archive the final decision, not every unnecessary draft.

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