



Suhas Bhairav

AI Supplier Performance Review Kit

A practical framework to assess supplier delivery, quality, and risk with actionable steps.

A ready-to-use kit to review supplier performance and drive measurable improvements.

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suhasbhairav.com

Scope and Goals

This kit provides a repeatable, auditable framework to review supplier performance in procurement. It guides data collection, ownership, and weekly review rituals to drive measurable improvements.

Key move Start with one supplier, three metrics, and one weekly review.

PRACTICAL CHECKLIST

- 01** Define core metrics: delivery on time, quality conformance, responsiveness, and total cost variance.
- 02** Assign data sources: ERP, supplier portals, quality records, incident logs, and payment data.
- 03** Establish roles: owner for data integrity, reviewer for validation, and escalation path.
- 04** Provide a weekly cadence: 60-minute review, focused improvements, and documented action items.
- 05** Include guardrails to prevent over-automation: human veto for critical quality changes.
- 06** Embed data quality checks: missing data triggers, reconciliation, and audit trails.

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Key Metrics and Data Sources

Identify metrics that reflect supplier performance and ensure reliable data access. This page maps data sources to metrics, owners, and AI-enabled tools.

Key move Automate data pulls where safe, but require human review for anomalies.

PRACTICAL CHECKLIST

- 01** Delivery accuracy: track on-time shipments vs promised dates by supplier.
- 02** Quality conformance: defect rate, rejected items, and root-cause tracking.
- 03** Responsiveness: supplier response time to inquiries and issue resolution duration.
- 04** Cost performance: total cost of ownership, freight, and rebates variance.
- 05** Automation: AI agents to assemble weekly scorecards from ERP and quality data.
- 06** Data quality: data completeness, consistency, and timeliness.

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Roles, Approvals, and Adoption Plan

Define ownership for each data stream, decision rights, and escalation processes. Outline a practical 6-week adoption plan with weekly milestones and guardrails.

Key move Document ownership within the first week; without it, decisions stall.

PRACTICAL CHECKLIST

- 01** Assign data owners: procurement operations, supplier management, quality, and finance for respective data streams.
- 02** Define thresholds: acceptable variances, alert levels, and escalation paths.
- 03** Guardrails: human review required for significant trend shifts or quality incidents.
- 04** Documentation: maintain templates and an auditable log of actions and approvals.
- 05** Adoption plan: pilot for four weeks with one supplier, then expand weekly.
- 06** Measurement: track adoption rate, time-to-insight, and impact on supplier performance.
- 07** Ownership: clearly assign decision rights for each KPI report and improvement action.

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ABOUT THE CREATOR

Suhas Bhairav

I build AI systems that combine distributed architecture, retrieval, knowledge graphs, security, and practical workflow design. My focus is AI that can be used repeatedly by real teams: understandable, reliable, and grounded in the work people already do.

EXPERTISE

- Principal systems architecture and applied AI engineering
- Production-grade AI systems, agentic workflows, RAG, and knowledge graphs
- Full-stack workflow applications across AWS, Google Cloud, Azure, on-premise, and hybrid environments
- Practical AI implementation patterns for automotive, manufacturing, finance, logistics, cybersecurity, sales, and customer operations
- Security, governance, observability, approvals, and failure-mode thinking for operational AI systems

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