

Manufacturing KPI Dashboard

How-to guide: what the workbook does, how to use it and what every number means.

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Manufacturing KPI Dashboard

Log a week of plant results in one row and see delivery, quality, productivity, equipment, cost and safety KPIs against your targets, with a weighted factory performance score.

For: Plant managers, operations and production managers, and owners who run a weekly or monthly performance review.

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Quick start

1. On Setup, type your plant name, currency label, the target for each KPI and the weights of delivery, quality and productivity in the score.
2. On KPI Log, add one row per week: orders shipped and on time, units planned, made and good first time, labour hours, planned hours and downtime, scrap cost, complaints and incidents.
3. Read the Check column: anything other than OK names the problem in words.
4. Open the Dashboard. Set From and To to look at one month or one quarter.

What is in the workbook

Start Here	Read this first: what the workbook does and how to use it.
Setup	Plant name, currency, the target for each KPI and the weights of the factory performance score.
KPI Log	One row per week: delivery, output, quality, labour, equipment, scrap, complaints and safety.
Dashboard	Delivery, quality, productivity, equipment, cost and safety against your targets, for the weeks you choose.
Method	How every number is calculated, with assumptions, limits and sources.
Verify	Self-check: the workbook's formulas recomputed on fixed inputs against an independent reference.

What each number means

Quantity	How it is calculated	Units
On-time delivery (OTD)	Orders on time / orders shipped.	%
Schedule attainment	Good first time / units planned.	%
First-pass yield	Good first time / units made.	%
Units per labour hour	Good first time / direct labour hours.	units/labour h

Quantity	How it is calculated	Units
Equipment availability	(Planned equipment hours - unplanned downtime) / planned equipment hours.	%
Scrap cost	Sum of the weekly scrap cost; the limit on the tile is the weekly limit x the weeks in view.	currency
Recordable incidents, complaints	Sums over the weeks in view.	count
Attainment of a score component	Actual / target, for OTD, first-pass yield and units per labour hour.	%
Factory performance score	(Delivery attainment x delivery weight + quality attainment x quality weight + productivity attainment x productivity weight) / sum of weights. 100% = all three on target.	%
Weekly score (KPI Log)	The same score from one row's OTD, first-pass yield and units per labour hour.	%
Status	On target at or above the target (at or below a limit), Near target within 5%, otherwise Below target (Above target for a limit).	-

Assumptions, limitations, sources and the self-check (the Verify sheet, which recomputes the workbook's formulas on fixed test inputs) are in the workbook. The last page shows the Dashboard with the example data for Calloway Fabrication, a fictional business.

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Engineering estimates for planning and improvement work. Verify the results against your own process, data and standards before you rely on them.

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Delivery, quality, productivity, equipment, cost and safety against your targets, for the weeks you choose.

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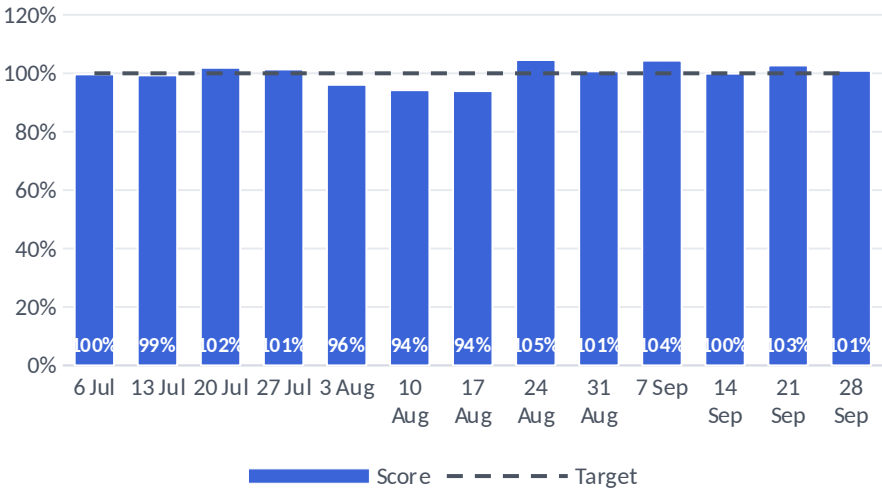
From

To

Calloway Fabrication (example): 13 weeks in view. Leave the filters blank to include every week; dates are inclusive.

FACTORY PERFORMANCE SCORE	ON-TIME DELIVERY	FIRST-PASS YIELD	UNITS PER LABOUR HOUR
99.9%	94.0%	95.7%	2.23
Target 100.0%	Target 95.0%	Target 96.0%	Target 2.20
Near target	Near target	Near target	On target

Factory performance score by week



Delivery and quality by week

