



KPI ENCYCLOPEDIA

A Comprehensive Collection of KPI Definitions for

MANUFACTURING & PRODUCTION



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Manufacturing & Production KPI Encyclopedia

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Facility Management

Manufacturing

Manufacturing & Production

Facility Management

Manufacturing & Assembly

Manufacturing Engineering

Production Planning

Quality Assurance

The Facility Management function is responsible for regulating the quality and cost of the facilities used in manufacturing goods and products. They control such aspects as security, worker safety, routine facility maintenance, facility temperature and humidity, utilities cost, space usage and layout as well as other environmental factors.



Facility Management

KPI Encyclopedia

Cost

- **Unit Cost: Energy per Unit Produced** – The total cost of energy (electricity, steam, oil, gas, etc.) required to run the manufacturing operation divided by the number of units produced over a certain period of time.
- **Average Hourly Wage: Production Setup Employees** – The average hourly wage for dedicated production setup employees working for the company. Setup employees prepare the line for production runs.
- **Capital Equipment Expense as a Percentage of Plant Revenue** – Total capital equipment-related expense divided by the total revenue generated by the plant, or production facility, over the same time period, as a percentage.
- **COGS as a Percentage of Plant Revenue** – The total cost of goods sold (COGS) divided by the total revenue generated by the plant, or production facility, over the same time period, as a percentage.
- **Labor Expense as a Percentage of Plant Revenue** – The total labor-related expense (wages, salaries, benefits, etc.) divided by the total revenue generated by the plant, or production facility, over the same time period, as a percentage.
- **Employee Training Expense as a Percentage of Plant Revenue** – Total employee training-related expense divided by the total revenue generated by the plant, or production facility, over the same time period, as a percentage.
- **General & Administrative Expenses as a Percentage of Plant Revenue** – Total general and administrative-related expense divided by the total revenue generated by the plant, or production facility, over the same time period, as a percentage.
- **Labor Expense as a Percentage of COGS** – The total labor-related expense (wages, salaries, benefits, training etc.) divided by the total cost of goods sold (COGS) over the same time period, as a percentage.

Cost (Cont.)

- **Materials and Components Expense as a Percentage of Plant Revenue** – The total materials and components-related expense divided by the total revenue generated by the plant, or production facility, over the same time period, as a percentage.
- **Overhead Expense as a Percentage of COGS** – The total overhead-related expense (rent, utilities, maintenance, etc.) divided by the total cost of goods sold (COGS) over the same time period, as a percentage.
- **Raw Materials Expense as a Percentage of COGS** – The total raw materials-related expense divided by the total cost of goods sold (COGS) over the same time period, as a percentage.
- **Sales & Marketing Expense as a Percentage of Plant Revenue** – Total sales and marketing-related expense divided by the total revenue generated by the plant, or production facility, over the same time period, as a percentage.
- **Utilities Expense as a Percentage of Plant Revenue** – The total utilities-related expense divided by the total revenue generated by the plant, or production facility, over the same time period, as a percentage.
- **Equipment Warranty Expense as a Percentage of Plant Revenue** – Total equipment warranty-related expense divided by the total revenue generated by the plant, or production facility, over the same time period, as a percentage.
- **Total Expense: Facility Management** – The total expense incurred by the Facility Management function over a given period of time.
- **Expense per Facility Management Employee** – The total expense incurred by the company divided by the total number of Facility Management employees.
- **Facility Management Expense as a Percentage of Total Expense** – The total Facility Management expense divided by total, company-wide expense over the same time period, as a percentage.



Facility Management (Cont.)

KPI Encyclopedia

Headcount

- **Total Headcount: Facility Management** – The total number of Facility Management employees working for the company.
- **Facility Management Headcount Ratio** – The number of company-wide, full-time equivalent employees (FTEs) divided by the total number of Facility Management employees.
- **Facility Management Employees as a Percentage of total Manufacturing & Production Employees** – The total number of Facility Management employees divided by the total number of Manufacturing & Production employees, as a percentage.

Organizational

- **Span of Control: Facility Management** – The average number of Facility Management employees reporting to each Facility manager.
- **Management Levels: Facility Management** – The total number of management levels, or layers, in the Facility Management function.
- **Organizational Structure: Facility Management** – Vector metric indicating whether the Facility Management

Productivity (Cont.)

- **Production Floor Space Use (All Facilities)** – The average floor space (in square feet) actively and regularly used by the company over a certain period of time divided by the total available floor space across all production facilities over the same period of time, as a percentage.
- **Production Floor Space Use (Single Facility)** – The amount of available production floor space within the production area that is used for equipment, storage, staging, etc., divided by the total amount of available production floor space, as a percentage.
- **Production Facilities Managed per Facility Management Employee** – The total number of production facilities managed over a certain period of time divided by the total number of Facility Management employees.

Quality

- **Degree of Automation** – The number of total equipment operation hours that are fully automated (i.e., roboticized) divided by the total equipment operation hours, as a percentage.

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