

Data Analytics Supply Chain Checklist

Overview

A Data Analytics Supply Chain Checklist outlines the essential factors that organisations should evaluate when leveraging data to analyse their supply chain operations. The goal of this checklist is to guarantee that all relevant data is thoroughly considered when making decisions about supply chain management.

Reporting & Analytical Domains



Customer Order Fulfillment

Are we delivering our products to customer in line with company and customer expectations? If not where are we falling short?



Inventory Management

Do we have the right inventory in the right place and is it within financial targets? What is the forecast inventory positions?



Supplier Performance Management

Are suppliers delivering products to agreed service levels? If not who are they and where are they falling short?



Freight Management

What is the cost of our third party freight? Is it within expectations? Are they meeting their service levels?



Warehouse Operations

What is the productivity of the warehouse? Is it within expectations? What is storage and material handling utilisations?



Workplace Health and Safety

Do we have the right safety culture? What prevention measures are in place? What incidents have occurred, and what is their impact and severity?

Align To Strategic Business Outcomes

- Zero harm environment
- Supply chain optimisation
- Maintaining great relationships with customers
- Managing our resources in an efficient and socially responsible manner.
- Long term, profitable relationships with product suppliers



Optimise Business Processes

- Customer Fulfilment
- Demand Planning
- Product Sourcing
- Customer Returns
- Supply Chain Operations



Support User Groups

- Supply Chain Management
- Inventory Management
- Warehouse Management
- Sales and Operations Planning
- Sourcing and Purchasing



Key Measures

Reliability, Responsiveness and Quality



Perfect Order

Did we deliver the right product at the right time in the right quantity and condition with correct paperwork?



Credits %

As a component of the perfect order, did we deliver the product in the right condition at the right price with the right paperwork?



On Time Delivery

As a component of the perfect order, did we deliver to the customer's original promise date or agreed delivery window?



Delivery Lead Time

Do our lead times align with company targets, customer and market expectations? Are they reliable.



In Full %

As a component of the perfect order, did we deliver the correct product in the agreed quantities.



Forecast Accuracy %

How accurate are the demand forecasts at the point of commitment to sourcing or manufacturing? What impact does this have on service levels?

Inventory Management and Planning



Total Stock \$

How much is invested in inventory and does it align to company financial targets?



Forward Weeks Cover

Do we have the correct amount of stock for the expected demand? Where is it too high, where is it too low?



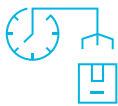
Excess Stock \$

Where are we overstocked, what is the cost and what can be done to reduce it? Does it require a financial provision or write down?



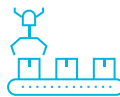
Forecast In Full %

What are the predicted service levels based on forecast customer demand and inventory supply? Where are the expected shortfalls?



Stock at Risk

For serialised and perishable items, what stock is at risk of expiring before sale, or requires discounting due to short shelf life?



Supplier DIFOT

Are our suppliers delivering the right product at the right time in the right condition? What is the upstream impact on failures?

Operations and Workplace Safety



Supply Chain Costs % Sales

What proportion of total revenue is consumed by supply chain costs? Is this within financial targets and how does it compare to industry?



Total Recordable Injury Frequency

What is the rate of injuries that require medical attention? Where are they occurring and how does it compare to industry benchmarks?



Variable Supply Cost per unit

What are variable (and therefore incremental) costs of the supply chain processes? Are these within financial targets?



Lost Time Injury Frequency Rate

How many injuries resulted in lost work time? What frequency are they occurring and how does it compare to industry benchmarks?

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