

TITLE 1

What is a Supply Chain?

Network Model

In a manufacturing context, a supply chain can be seen as a network of suppliers, manufacturers, distributors, and retailers.

What is Supply Chain Management?

SCM Activities

Product-Process Matrix/Cube

Customer Order Decoupling Point

Flows

Materials Flow

Subsubtitle 2

Inventory: Concepts & Methods

Inventory

Different PoV: Finance/Accounting vs. Production/Logistics/SCM

Why hold inventory?

- Cover process time
- Decouple process

Inventory decisions

Inventory Costs

Inventory: Deterministic Models

EOQ

Flows

Network Model

EOQ formula:
$$Q^* = \sqrt{\frac{ABC}{D}}$$

Appendix 1

Mathematical Functions

Linear Functions

$$f(x) = mx + b$$

Cost functions of the form $f(\text{Units}) = \text{Fixed Cost} + \text{Unitary Cost} * \text{Units}$

