

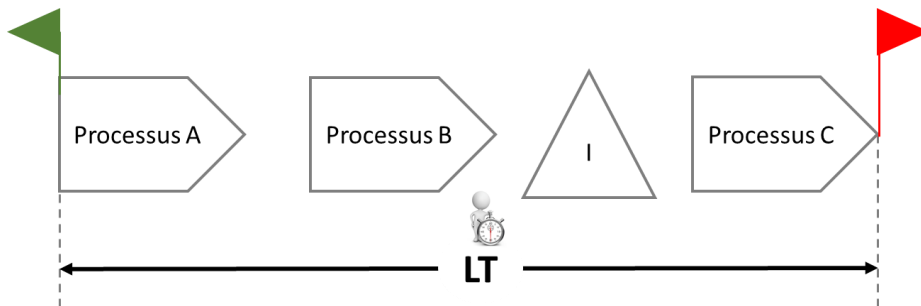


The LEAD Time

Definition:

LEAD Time is the time that elapses between the beginning and the end of a process.

- Time taken for the realization of a product on a production line
- Processing time of an administrative file



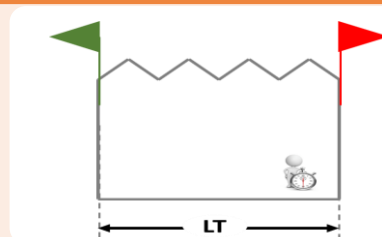
LEAD Time refers to the time of crossing the whole realization chain :

- Crossing time processes
- Crossing time inventory

$$LT = Tps A + Tps B + Tps I + Tps C$$

Door To Door :

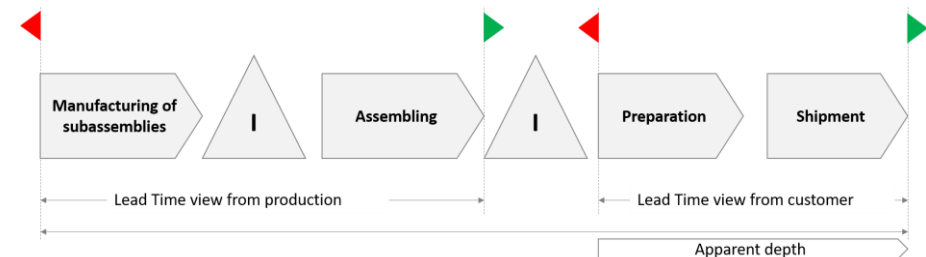
This is the crossing time from arrival at the front door of the plant, until the exit.



LEAD Time is made on a product. It can be estimated by calculation or measured.

- Estimated:
 - Process : compared to the routing time
 - Inventory : Use of Little's law ($LT = \text{Inventory quantity} / \text{Average consumption}$)
- Measured:
 - Timing
 - Followed a piece from start to exit

Apparent depth of process:



The apparent depth is the LEAD time seen by the customer.

LEAD Time is a **key performance indicator** of LEAN: speed determines the performance of the organization.

More the crossing time is short:

- The faster you put products or services available to the customer (**Time-To-Market**)
- The faster the costs incurred are covered (**Time-To-Cash**)