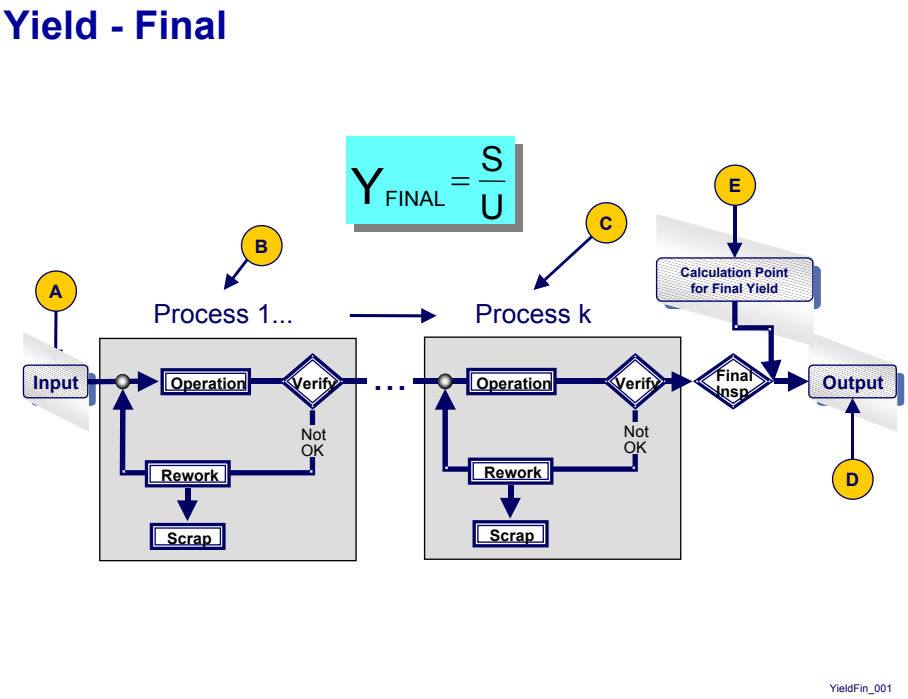
# Yield - Final

## *Purpose*

To compute the "First Time Yield" after the last step of a series of k process steps is completed. Final Yield is a system test, in that not every CT characteristic is tested or verified.

## *Anatomy*




*Reference:* *The Vision of Six Sigma: A Roadmap for Breakthrough Ch. 14*

## *Terminology*

A. Process Input.
B. First process step.
C. kth (and last) process step.
D. Process output.
E. Calculation point of Final Yield, defined as the ratio of number of units accepted (S) to the number of units tested (U).

## *Major Considerations*

Does not consider the "Hidden Factory". $Y_{FINAL}$ does not provide an insight into true process performance or on the severity of failures.
The cost structure of each unit of output may be different.

## *Application Cookbook*

1. Count the number of units inspected or tested (U).
2. Count the number of units that pass the inspection/test requirements (S) at the end of the process.
3. Apply the formula $Y_{FINAL}$ , expressing the result as a percentage.