



# Production Flow Metrics

## ? What is It

Distinctive production operational metrics to test, describe, and measure processes flows.

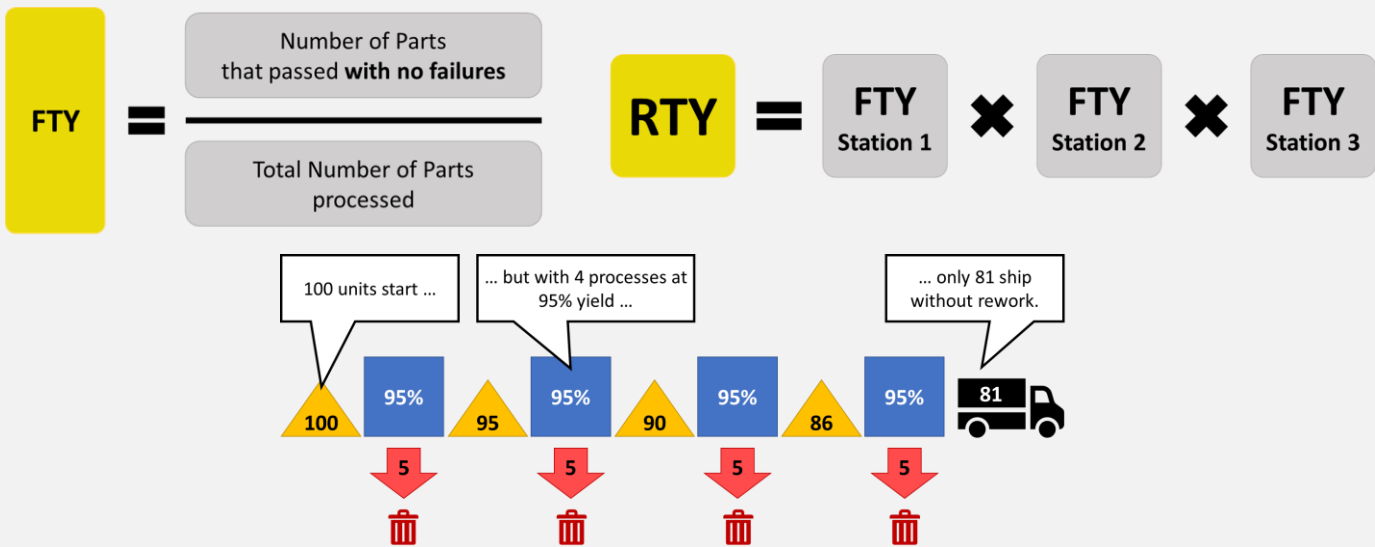
## 🕒 When

- To perform a **production test**.
- To **understand the true yield** (defect rate impact) in a process study.

## 🎯 Goals

- Enhance operational effectiveness.
- Capture the rework effect on the process. The effect of poor quality.
- Provide valuable improvement insights.

## 📊 How



## 💡 Hints

- RTY can help give a more complete picture of **how poor quality affects the day-to-day operation**.
- An average RTY also is helpful but **may be misleading**. Adding or removing steps to the flow could have a significant impact, either positively or negatively, on the overall average.

## 📄 Example

PathStone Group		Rolled Throughput Yield - DPMO								
Opportunities	2	DPMO	697,000	Sigma	0.98	DPMO	96,735			
Defects	237		697,000		0.98	% Defects	10			
Units	1,225		308,733		2.00	% Yield	90			
			66,803		3.00	Sigma	3			
			6,210		4.00	Zst	1			
			233		5.00	DPMU	193,469			
			3		6.00	Cp	0.93			
Process Step	Defects	Units	Opportunities per Unit	Total Opportunities	Defects Per Unit	First Pass Yield	Defects Per Opportunity	Defects Per Million Opportunities (DPMO)	Throughput Yield	Rolled Throughput Yield
1	32	3,434	1	3,434	0.009	99.1%	0.009	9,319	99.1%	99.1%
2	15	4,345	1	4,345	0.003	99.7%	0.003	3,452	99.7%	98.7%
3	23	3,322	1	3,322	0.007	99.3%	0.007	6,924	99.3%	98.0%