

# WHAT IS THE FORMULA TO CALCULATE TAKT TIME?



# WHAT IS TAKT TIME?

## TIME NEEDED TO PRODUCE ONE UNIT OF A PRODUCT TO MEET CUSTOMER REQUIREMENTS

$$T = \frac{T_a}{T_d}$$

where, T stands for Takt Time

$T_a$  stands for Net Available Time

$T_d$  is the total customer demand (units produced per day)

# TAKT TIME EXAMPLE

You are a manager of a back office process. You have received 400 transactions in the queue today and you have 8 hours to complete those transactions. You have a total of 5 team members. Calculate Takt Time.

$$\text{Total Customer Demand} = T_d = 400$$

$$\text{Total number of team members} = 5$$

$$\text{Net available time} = T_a = 8 \text{ hours} \times 5 = 40 \text{ hours} = 40 \text{ hours} \times 60 \text{ minutes} = 2400 \text{ minutes}$$

$$\text{Takt Time} = T = \frac{T_a}{T_d} = \frac{2400}{400} = \mathbf{6 \text{ minutes}}$$

Inference: To process a customer demand of 400 transactions within 24 hours, you need to process each transaction within 6 minutes