

## Waste



### DEFINITION

- to damage or destroy gradually and progressively
- to cause to shrink in physical bulk or strength
- to wear away or diminish gradually
- to spend money or consume property extravagantly or improvidently
- Damaged, defective, or superfluous material produced by a manufacturing process
- Refuse from places of human or animal habitation
- Gradual loss or decrease by use, wear, or decay

### A.K.A.

Also known as Muda. Muda is a Japanese word meaning futility, uselessness, or wastefulness. A focus of the Toyota Production System (TPS) and later Lean process improvement, it refers to one of the three types of deviation from optimal allocation of resources: “Muda, Mura, Muri” (Waste, Unevenness, Overburden). Waste is any process that doesn’t add value to the end user.

### RHYMES WITH

Haste. Haste makes...yup—you guessed it—Waste!  
Remember to slow down and ask 5 WHY’S to get to root cause of a situation. 80% of the time, root cause is due to cultural, not technical issues.

### WASTE IN THE NEWS

Reducing packaging, carbon footprints, etc. is on the rise! Recently:

- 19 CT towns have banned single use plastic bags
- SFO banned sale of plastic water bottles
- Create less waste in the kitchen; for example, strawberries last longer if they’re not touching. Lay them out next to one another instead. Who knew?

### 7 FORMS OF WASTE

- Transportation
- Inventory
- Motion
- Waiting
- Over-Production
- Over-Processing
- Defects

# Waste

## SPOTLIGHT ON WASTE #4, MOTION

How can all forms of work place movement be optimized?

- How often is wasted motion due to materials not at point of use? Can 5S/Visual Workplace, SMED principles be more effective?
- Are processes / equipment set up and maintained to ensure optimal effectiveness? Are SMED and TPM be adhered to by all on a daily basis?
- Is work flow optimal? Can VSM and flow be utilized and improved?
- Are workers moving ergonomically? Can repetitive and unnecessary movements be avoided?

## REFLECTION: TAKING IT BACK HOME

How do the 7 deadly wastes, reactive vs. proactive maintenance, etc. apply to your:

- Home / Family?
- Office?
- Auto?
- Travel?
- Recreation / Hobbies?

## NOT TO BE MISTAKEN FOR

Waist. A loosening of the belt to accommodate a reduction in motion. Hey, we didn't say there wouldn't be a trade off! Consider yourself forewarned....

## FAMOUS QUOTE USING WASTE

*"The most dangerous kind of waste is the waste we do not recognize."* — Shigeo Shingo

## NOT-SO-FAMOUS QUOTE

*"If A equals success, then the formula is  $A = X + Y + Z$ . Where X is work. Y is play. Z is keep your mouth shut."* — Albert Einstein

