MUDA - The 8 Wastes



Non-Manufacturing

Manufacturing

DESCRIPTION DESCRIPTION TYPE OF WASTE EXAMPLE EXAMPLE DEFECTS 🛴 **DEFECTS** Data entry errors A product, process, A product, process, Scrap activity or information activity or information Recalculating figures Rework flow is not right the first flow is not right the first Reconciliation • Incomplete or missing information • Incomplete or missing information time. time. **OVER-OVER-**• Producing product that no one needs **Producing more than** Producing reports that no one reads or needs **Producing more than PRODUCTION PRODUCTION** Making extra product just-in-case Making extra copies just-in-case needed. needed. Making product to improve OEE • Entering repetitive information on **Producing faster than Producing faster than** Making product too early needed. needed. multiple documents Producing more to avoid change-overs Memos or emails to everyone **Duplication of effort. Duplication of effort.** • Batching to avoid change-overs **WAITING WAITING** Waiting for approvals or signatures Waiting for equipment/machine cycles to finish Attendees not all on time for meeting **Delays** caused by **Delays** caused by Attendees not on time for meetings unsyncronised process Slow system response time unsyncronised process • Delays in receiving information/approvals Delays in receiving information activities. activities. • Equipment/machine breakdowns Printer or computer break-down Slow system response time **NO EMPLOYEE NO EMPLOYEE**

- Not involving people to improve the work & solve problems
- Leaders not teaching and coaching employees
- No training / development
- Multiple hand-offs / approvals
- Tracking & expediting reports
- Complex information & data management
- Excessive office supplies
- Obsolete other files & equipment
- Lack of memory space
- Copying / Printing unnecessary documents
- FISH (First In Still Here) rather than **FIFO (First In First Out)**
- Looking for paperwork
- Searching for files
- Additional walking due to poor office layout
- Sorting through data
- No standard work defined

Additional activity that adds no value to the product / process from the

An unnecessary material

or information movement.

Any unnecessary or

/ information.

process.

additional materials / data

Any unnecessary motion

that doesn't add value

to the product and / or

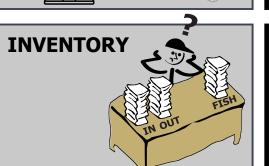
Not using / developing

employees talent or

creativity.



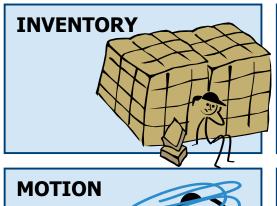
INVOLVEMENT_



MOTION







INVOLVEMENT

TRANSPORT



Any unnecessary or additional materials / data / information.

Any unnecessary motion

that doesn't add value

to the product and / or

process.

An unnecessary material

or information movement.

Not using / developing

employees talent or

creativity.

- Excessive stock in warehouse
 - Material between processes
 - Making just in case

& solve problems

and out of storage

• Spaghetti flow

No training / development

• FISH (First In Still Here) rather than **FIFO (First In First Out)**

Moving parts between processes or in

Multiple handling of same product

• Not involving people to improve the work

• Leaders not teaching and coaching employees

- Excessive equipment/machine movements • Reaching too far for products
- No standard work defined

- Multiple signatures / approvals
- Unused reports

Re-entering data

- customers perspective.
- **EXCESS PROCESSING**



- Additional activity that adds no value to the product / process from the customers perspective.
- Doing more than the standard specification requires
- Polishing, over painting, wrapping
- Excessive reporting