TOYOTA

MATERIAL HANDLING

8 TYPES OF WASTE

1.

Overproduction

Making more than what is needed, or making it too early.

- Creates excess inventory
- Hides problems
- Leads to additional handling and storage

Waiting

2.

Idle time when people, parts, information, or equipment are not moving.

- Leads to delays and longer lead times
- Often caused by unbalanced workloads or machine downtime

3.

Transportation

Unnecessary movement of materials or products.

- Adds cost and time but no value
- Increases risk of damage

Overprocessing

(or Excess Processing)

4.

Doing more work - or using more complex processes - than required.

- Often results from unclear specifications or poor tool selection

5.

Inventory

Excess raw materials, work-in-process (WIP), or finished goods.

- Ties up cash
- Hides defects
- Requires extra storage and handling

Motion

6.

Unnecessary movement of people.

- Causes fatigue and inefficiency
- Includes searching, bending, reaching, walking

7.

Defects

Products or services that are incorrect or incomplete.

- Lead to rework, scrap, customer dissatisfaction
- Waste time, materials, and money

Skills

8.

Underutilising people's skills, knowledge and potential.

- Invest in training and continuous development
- Share best practice and learn from others