

Lean Production

Chapter 47
SdP

Homework
Chapter Review,
Page 220
Text Book

Pause for an exercise...

Question 1,
Page 218/9, text book...

Thanks for listening
and watching
Any questions?



Just-in-time production
Advantages:
- Reduces inventory
- Reduces waste
- Improves cash flow
- Reduces lead time
Disadvantages:
- Requires high quality
- Requires close relationships with suppliers
- Requires accurate demand forecasting



A one-piece flow
Advantages:
- Reduces inventory
- Reduces waste
- Improves cash flow
- Reduces lead time
Disadvantages:
- Requires high quality
- Requires close relationships with suppliers
- Requires accurate demand forecasting



Lean Production

Chapter 47
SdP

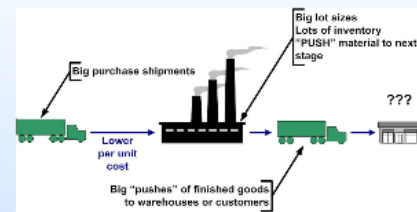


What does it mean?

By definition: an integrated set of activities designed to achieve a high level of production using minimal resources to produce goods and services in consistent pursuit in the elimination of wastes.



Traditional way of thinking



What does it mean?

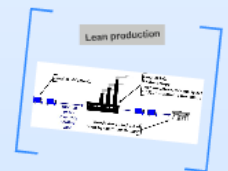
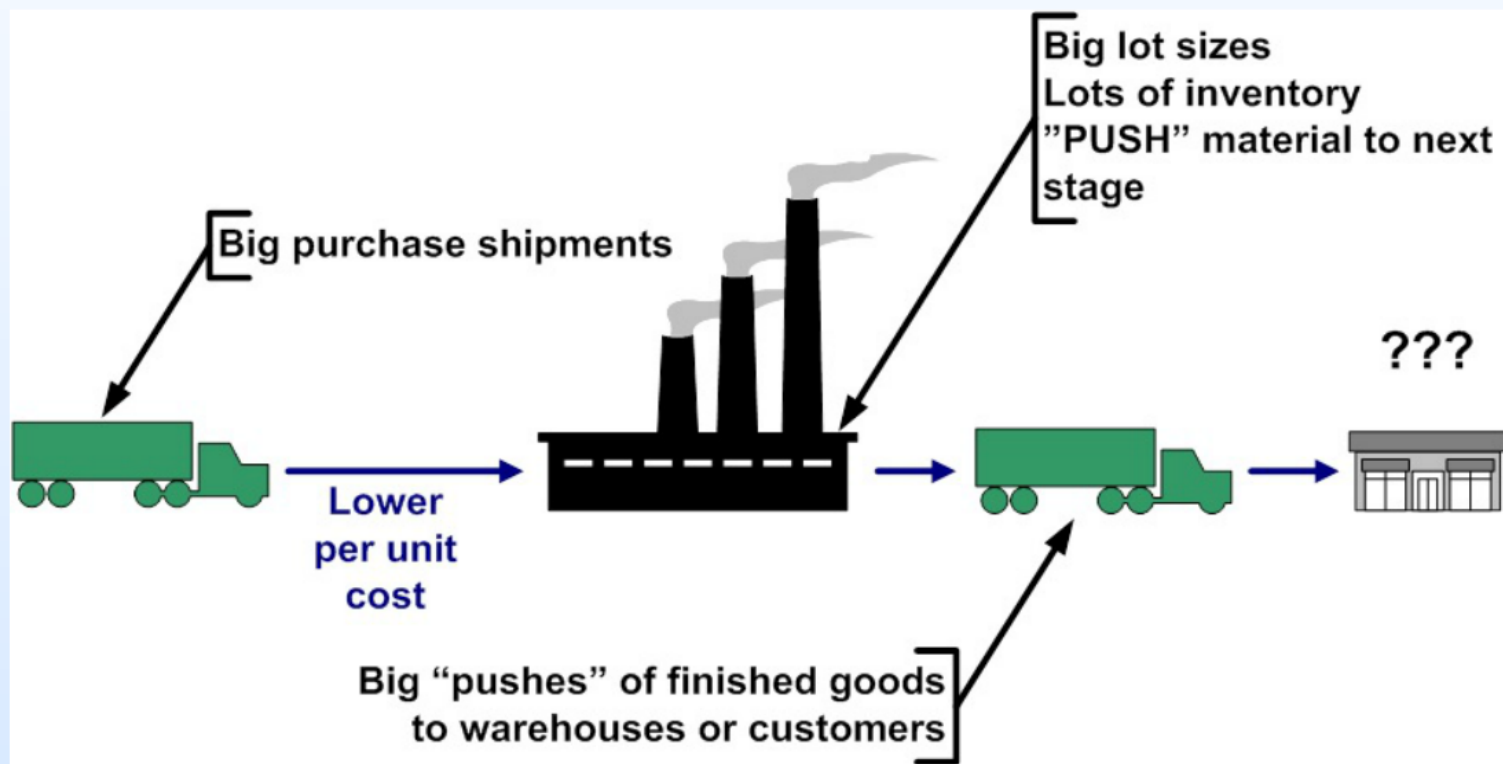
By definition: an integrated set of activities designed to achieve a high level of production using minimal resources to produce goods and services in consistent pursuit in the elimination of wastes.



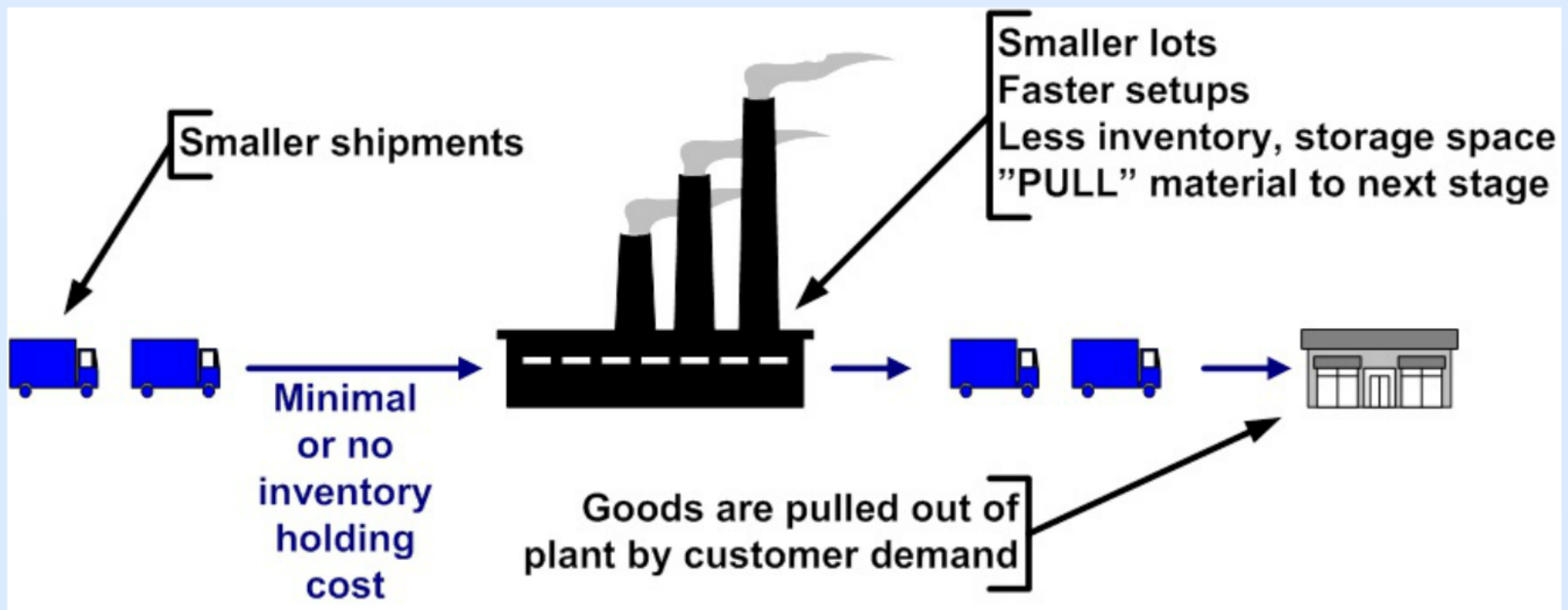


You Tube

Traditional way of thinking



Lean production

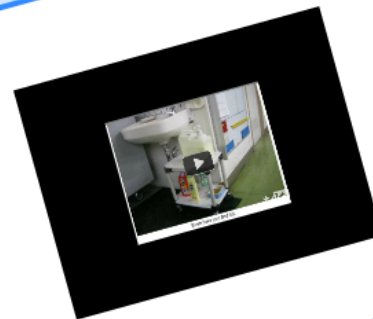


As a result, lean production:

- raises productivity;
- reduces costs and cuts lead times;
- reduces the number of defective products;
- improves reliability and speeds up product design.

Kaizen

"continuous improvement..."



As a result, lean production:

- raises productivity;
- reduces costs and cuts lead times;
- reduces the number of defective products;
- improves reliability and speeds up product design.

Kaizen

"continuous improvement..."



YouTube



Even here you find 5S.

YouTube

Just-in-time production

Business does not hold any stocks at all

Goods are not produced unless they have been ordered



Just-in-time production

Advantages

- Cash flow is improved;
- No waste, obsolete or damaged stock;
- Space is released;
- No stock holding costs;
- Stronger links with suppliers;
- Fewer suppliers.

Disadvantages

- Higher ordering and administration costs;
- Huge reliance on suppliers' reliability;
- Advantages of bulk-buying may be lost;
- Hard to cope with fluctuations in demand;
- Vulnerable to a break in supply.

Just-in-time production

Business does not hold any stocks at all

Goods are not produced unless they have been ordered



YouTube

Just-in-time production

Advantages

- Cash flow is improved;
- No waste, obsolete or damaged stock;
- Space is released;
- No stock holding costs;
- Stronger links with suppliers;
- Fewer suppliers.

Disadvantages

- Higher ordering and administration costs;
- Huge reliance on suppliers' reliability;
- Advantages of bulk-buying may be lost;
- Hard to cope with fluctuations in demand;
- Vulnerable to a break in supply.

Thanks for listening
and watching
Any questions?

Pause for an exercise...

Question 1,

Page 218/9, text book...

Cell Production

Cell production involves dividing the workplace into "cells".

Each cell produces a "product family".

This is a group of products which use similar production methods.

Inside a cell, machines are grouped together and a team of workers sees the production from start to finish.



Lean Production

Workers

Most lean production techniques rely heavily on the workforce.

Workers are expected to play a more positive and decisive role in the business.



Cell Production

Cell production involves dividing the workplace into "cells".

Each cell produces a "product family".

This is, a group of products which use similar production methods.

Inside a cell, machines are grouped together and a team of workers sees the production from start to finish.



Lean Production Workers

Most lean production techniques rely heavily on the workforce.

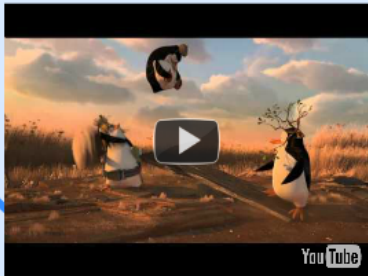
Workers are expected to play a more positive and decisive role in the business.



Team working

Involves:

- Dividing the workforce into small groups;
- Each team will focus on a particular area of production and the members will have the same common aims;



Multi-skilling

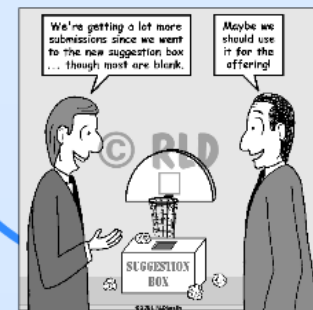
If workers are trained in a variety of skill they are said to be multi-skilled.

Multi-skilled workers are more useful to a business because they provide more flexibility.

Suggestion schemes

Suggestions schemes encourage workers to suggest ideas for improving production or reducing costs.

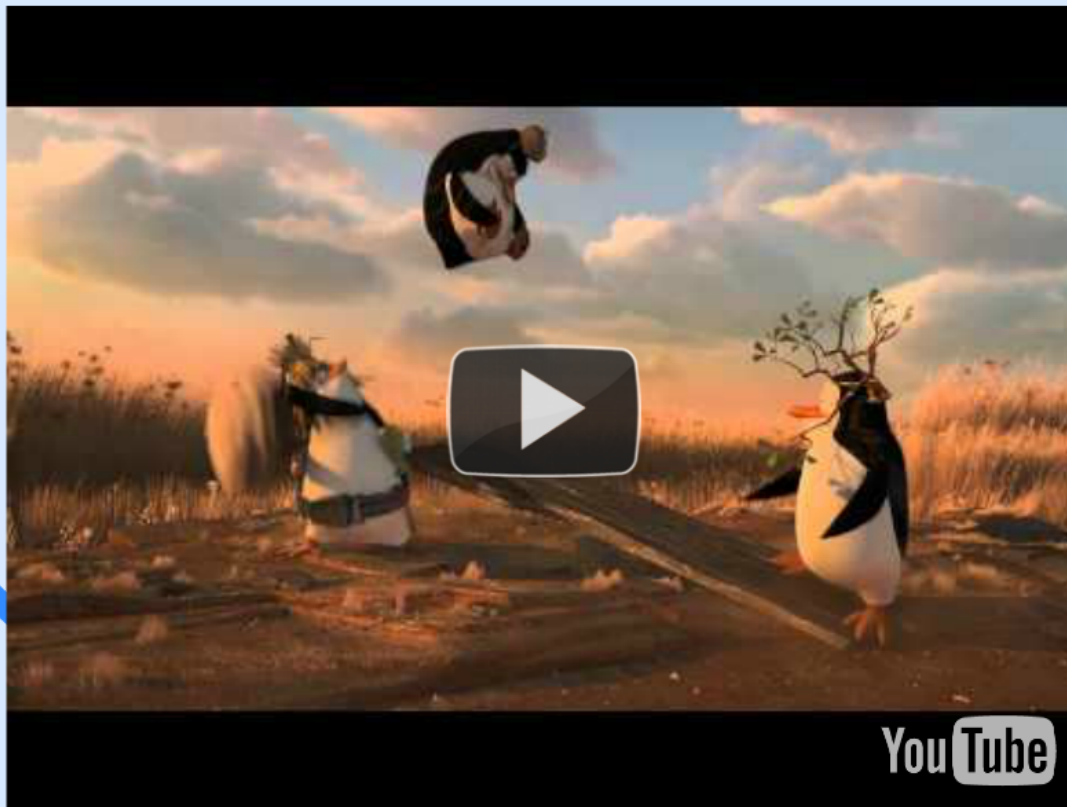
Suggestion schemes are often a feature of Kaizen.



Team working

Involves:

- Dividing the workforce into small groups;
- Each team will focus on a particular area of production and the members will have the same common aims;





Multi-skilling

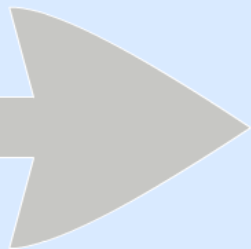
If workers are trained in a variety of skill they are said to be multi-skilled.

Multi-skilled workers are more useful to a business because they provide more flexibility.

Suggestion schemes

Suggestions schemes encourage workers to suggest ideas for improving production or reducing costs.

Suggestion schemes are often a feature of Kaizen.



Homework

Chapter Review,
Page 220
Text Book

Lean Production

Chapter 47
SdP

Homework
Chapter Review,
Page 220
Text Book

Pause for an exercise...

Question 1,
Page 218/9, text book...

Thanks for listening
and watching
Any questions?



Just-in-time production

Advantages	Disadvantages
Reduces inventory costs	Increases risk of stockouts
Improves cash flow	Requires high quality control
Reduces waste	Increases complexity
Improves delivery times	Requires high quality control



A streamlined production

- Reduces inventory costs
- Improves cash flow
- Reduces waste
- Improves delivery times

