

What is Total Productive Maintenance (TPM)?

It is maximising throughput capacity by improving machine uptime. Reducing unplanned breakdowns is one of the most cost-effective philosophies of Lean Manufacturing.

What questions do we need to ask?

- How effective is the equipment?
- How much capacity is being wasted and how much is this costing?

What is the Goal?

To decrease the total downtime in order to increase machine capacity.


What are the benefits?

Proper maintenance programmes:


- Keep equipment running for longer;
- Reduce unscheduled down time;
- Realise significant cost benefits;
- Makes life less stressful.

Who has a part to play? Meet the Asset Care Choir!


Mick the Mechanic (Tenor)

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- *Those operators are useless.*
 - *That machine is like a **** house.*
 - *I can't look after those machines!*

Cath from Customer Service (Altered)


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- *No, that's priority!*
 - *The customer wants it now!*

Ollie the Operator (Boretone)

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- *We can never get our machines maintained.*
 - *I've told them about the problems!*



Pam the Planner (Soreprano)

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- *We can't stop those machines*
 - *I need that order out!*
 - *What is all the fuss about?*

TPM gets everyone to work in harmony using modern Maintenance Management methods.

Course Structure:

UNIT 1: The basis of modern Maintenance practice

This initial module addresses the following:

- T.P.M. What can it offer?
- Criticality analysis: a tool to identify the most vulnerable parts of the process.

UNIT 2: Advanced Asset Care: "In-your face Engineering"

Designed to generate low cost/no cost improvement ideas based on visual management techniques such as:

- Marking operating settings and ranges on gauges;
- Effective storage and management of lubricants;
- Inserting see-through windows on critical items;
- Marking the proper direction of rotation on motors;
- Labelling replacement belt, filter and chain sizes;
- Colour-coding pipes and air lines;
- Labelling pipes to indicate what they contain.

UNIT 3: Basic Predictive and Preventive Maintenance

1. Demonstrate how Preventive Maintenance:

- Increases life of equipment.
- Reduces failures and breakdowns.
- Reduces down time.
- Decreases cost of replacement.

2. Develop a Spares Strategy

3. Outline the key principles of Predictive Maintenance

- Develop an equipment maintenance strategy to measure the condition of equipment in situ and to assess whether it will fail during some future period.
- Take appropriate action to avoid the consequences of that failure.