Work Study Gari Jenkins

Operations Management derived from Scientific Management ~ FW Taylor (1947)

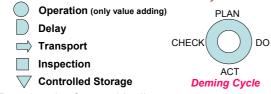
Work Study: the systematic examination of activities in order to improve the effective use of human & other resources (British Standards). Had a very bad press / image problem with Taylorism. 'Bad old days'; 'Us & Them'. Work Study is not an assurance of **Quality**. However, the **basic tools and techniques**, together with the mentality behind **modern work study** methods, can serve as part of Quality Drive (**TQM**). Because of the need to **monitor improvements** & **quantify work** on a **continuous basis**. Made up of:

Method Study - The best way of doing a job 'systematic & critical examination of the way of doing things in order to make improvements'

S R E D I M

<u>Select</u> work to be studied Record all relevant facts:

Video / surveillance etc. Use workflow symbols:



Examine the facts critically:

Use Ishikawa (fishbone) diagram / cause & effect 4Ms: Manpower | Machinery | Materials | Method

Develop optimum alternatives:

Relationship Chart

<u>Install</u> the new method as standard (*training reqd*)

<u>Maintain</u> by regular checks (*training reqd*)

Work Measurement – How long jobs should take 'application of techniques designed to measure the time for a qualified worker to carry out defined task'

Measuring the time tasks take has direct impact on : Costs / Delivery Speed / Delivery Reliability

Need information to work out key ratios:

Productivity = OUTPUT / INPUT

Efficiency = ACTUAL OUTPUT / EXPECTED OUTPUT

Plant Productivity = OUTPUT / MACHINE HOURS

Can be applied to:

Capacity planning; scheduling; more accurate costing; contingency planning; layout & process design

Benefits of work measurement & method study

- → Improved design
- → Less absenteeism
- → Improved morale
- → Better use of materials
- → Improved layout
- → Less labour turnover
- → Better use of equipment
- → Reduce fatique

How should it be introduced?

- → Involve Employees at start
- → Get 'Buy-In'
- → Be open about Work Measurement techniques
- → Present / Communicate effectively
- → Promote the benefits
- → Times need to be realistic

Link with Quality / TQM (see other sheet)

Definitions of Quality: 'Fit for Purpose' | 'conformance to specifications' | 'Get it Right First Time'

BUT – quality products & services are aimed at *satisfying* Customers ::their PERCEPTION is KING QUALITY IS ABOUT SATISFYING CUSTOMERS

Quality and Quantity sit together to produce TOTAL QUALITY. Changes & results must be quantified on a regular basis (SREDIM). Work measurement important to measure & monitor improvements.

All companies which received 'Malcolm Baldrige National Quality Improvement Award' used Work Study

KAIZEN - Continuous Improvement | MUDA - Elimination of Waste

Need Internal Improvement ~ Work Study provides means to improve every area of business (measurable / quantifiable)
Work Study can greatly benefit the organisation in terms of *focussing*, *measuring* & *continuously improving*