

IDEA FORMULATION

Push for Productivity. Go for Quality



Checklist for Idea formulation

- Elimination: What will happen if something is eliminated?
- Reversal: What will happen if something is reversed?
- Normal and abnormal: Is something an abnormality or does it occur all the time?
- Constant and variable: What will happen if only the changing item is treated as an exception?

Continued

- Enlargement and reduction: What will happen if something is enlarged or reduced?
- Linking or separating: What will happen if some things are joined or taken apart?
- Concentration and dispersion: What will happen if some things is added or removed?
- Changing the sequence: What will happen if a different assembly procedure is used?

Continued

- ❑ Replacement or substitution: Can something be used for another purpose? Can it be replaced with something else?
- ❑ Parallel or serial: can two or more things be done at the same time? Can they be done sequentially?
- ❑ Differences and similarities: Is there a method to easily separate different things? Is there a method to group similar things?

Famous quotations about ideas

“I have never done anything of worth coincidence. None of my inventions have come as a result of coincidence. They were hard work”. (Thomas Edison)

“Man can put out about 1/20 of a horsepower. He has to rest at least 9 hours a day. He also has to eat and drink. As a power of source, we are terrible. However, it is when man starts thinking of ideas that the difference between man and machine emerges”. (Soichiro Honda)

Continued

“The innovative organisation requires a learning atmosphere throughout the entire business. It creates and maintains continuous learning. No one is allowed to consider himself finished at any time. Learning is a continuing process for all members of the organisation”.
(Peter Drucker, Management: Tasks, Responsibilities and Practices)

Failure allows a researcher to obtain valuable experience and expand his ideas to infinity”. (Masfumi Inoki)

Continued

“Ideas are born amidst the noise of machines and work”
(Kiyoshi Ichimura)

“People show tremendous abilities when they are pushed to very limit. People who are always the point man usually come up with good ideas”. (Yajiro Ikari)

Push for Productivity. Go for Quality



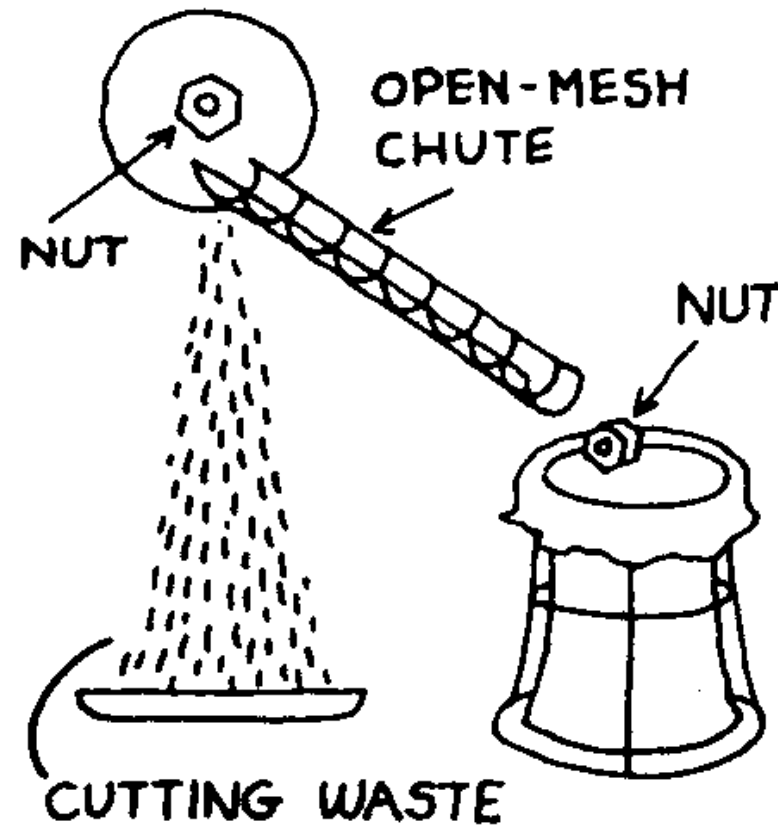
Continued

“There is no joy other than joy of creating. There is no man who is truly alive other than those who are creating. All other are just shadows on the earth with nothing to do with being alive. The joy of living, whether it is love or action, is the joy of creating”. (Romain Rolland)

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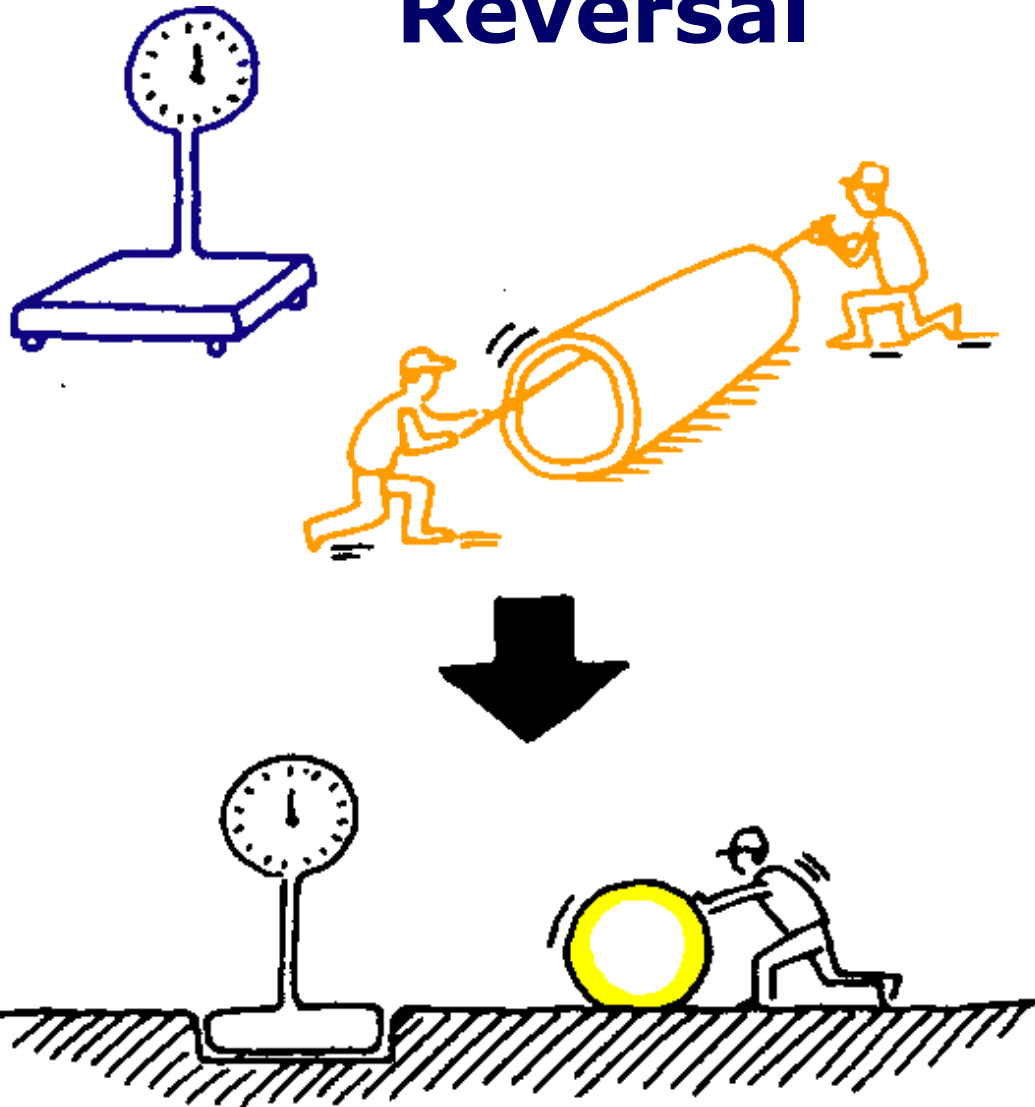


Separate different things



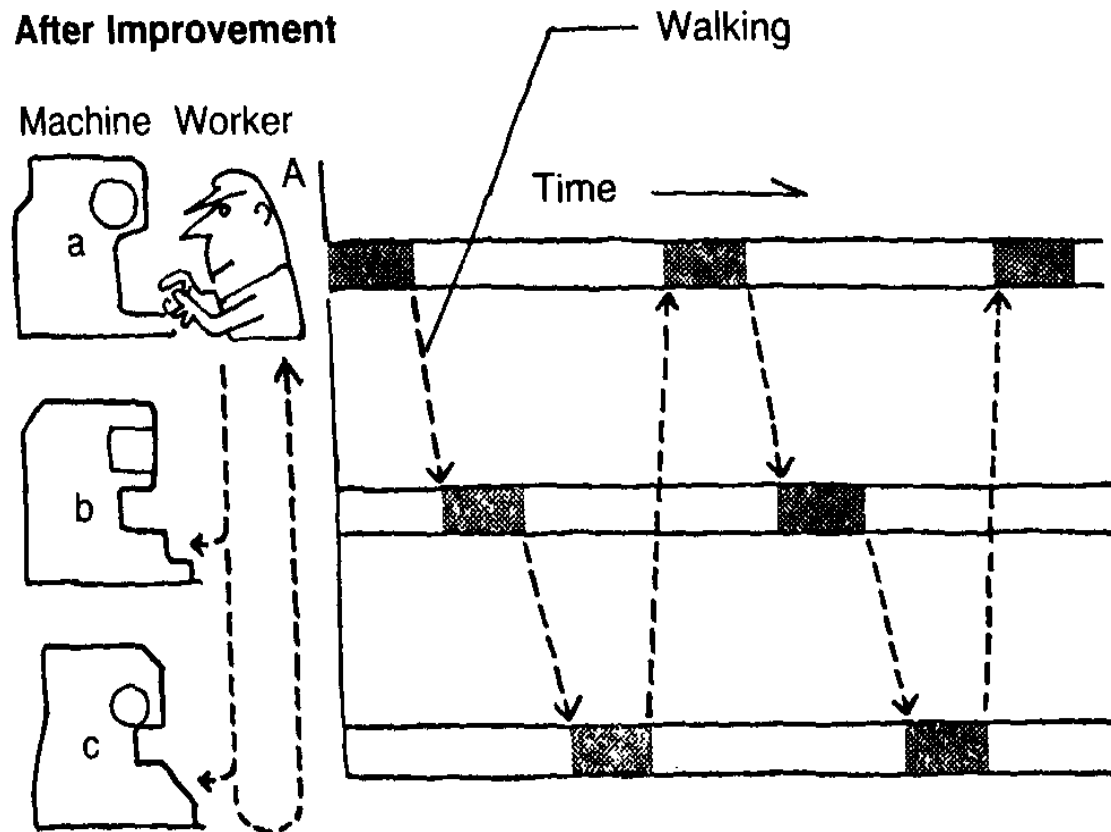
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Reversal



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Eliminating Waste Arising from Time on Hand

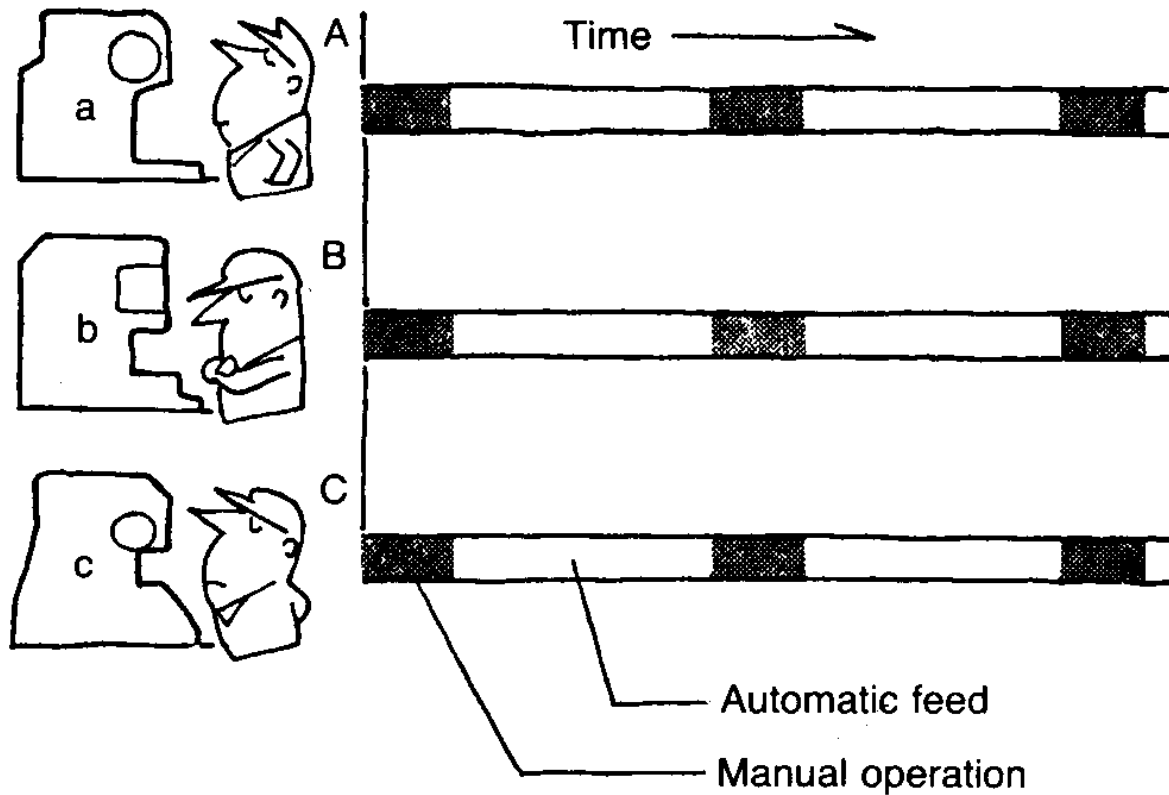


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Waste Arising from Time on Hand

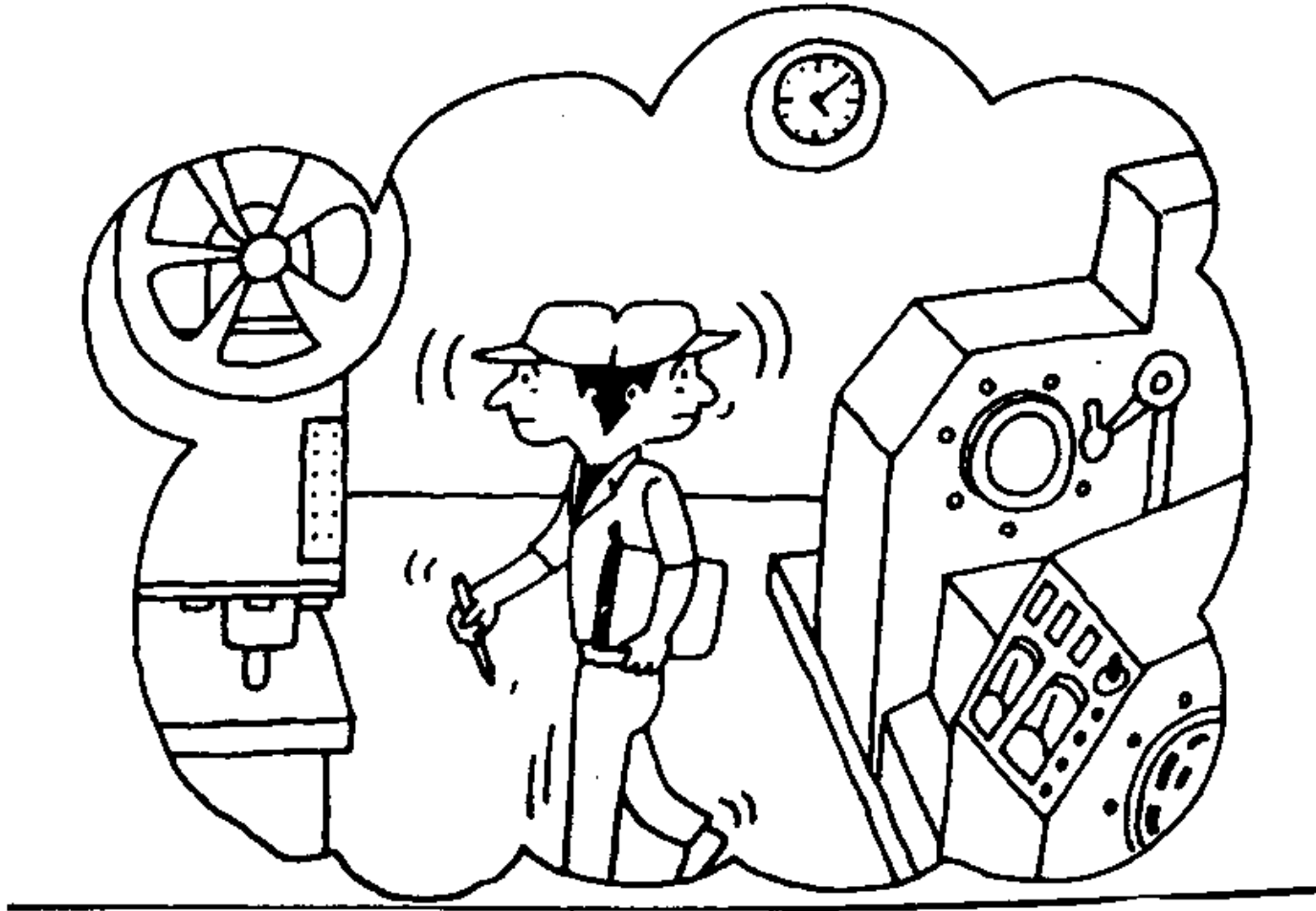
Before Improvement

Machine Worker



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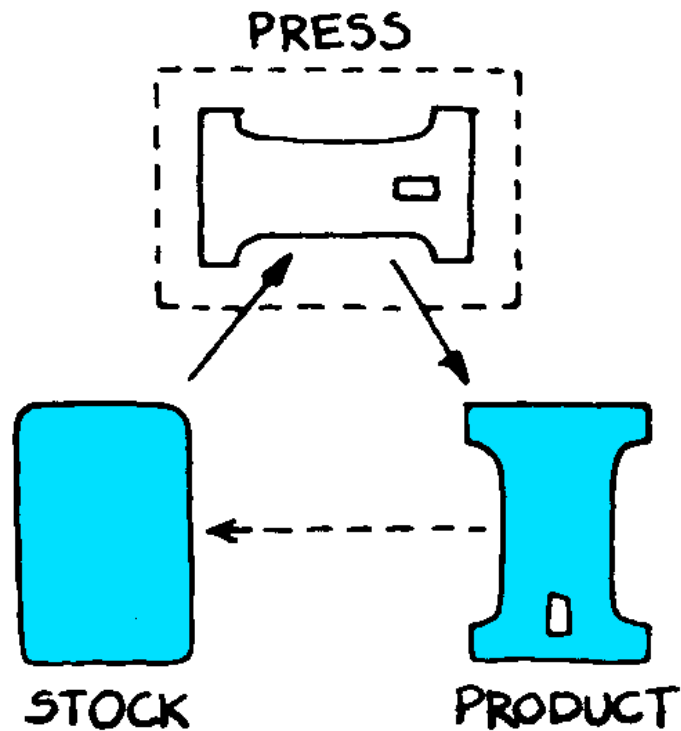
Problem at workplace



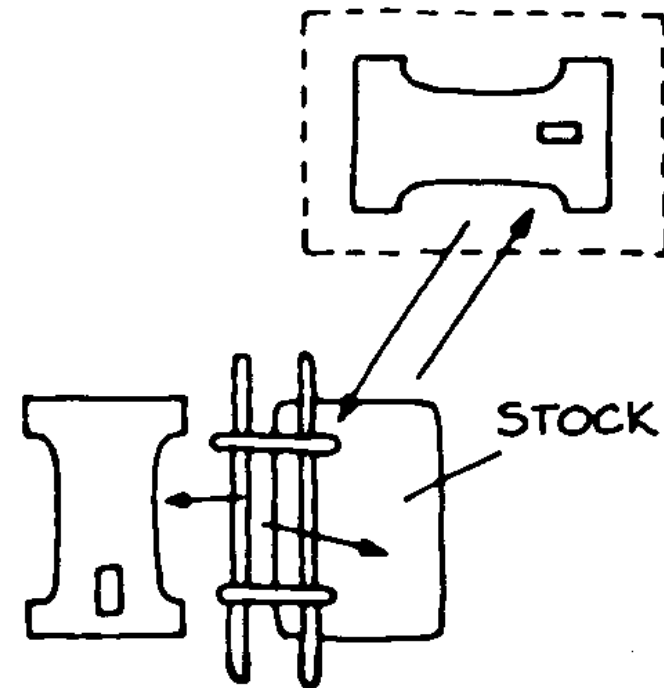
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Replacement and Substitution

PRESS WORK POSITION



THE PRODUCT IS MOVED OVER ON A SLIDING PANEL



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THANK YOU

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