



# CONTINUOUS PROCESS IMPROVEMENT, 5S & KAIZEN

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Course : Total Quality Management

**19ME514**  
**Unit -2 TQM Principles**  
**III Year /V Semester**  
**Mechanical Engineering**

# TOPIC OF THE DAY



改善

Kai = Change

Zen = Good

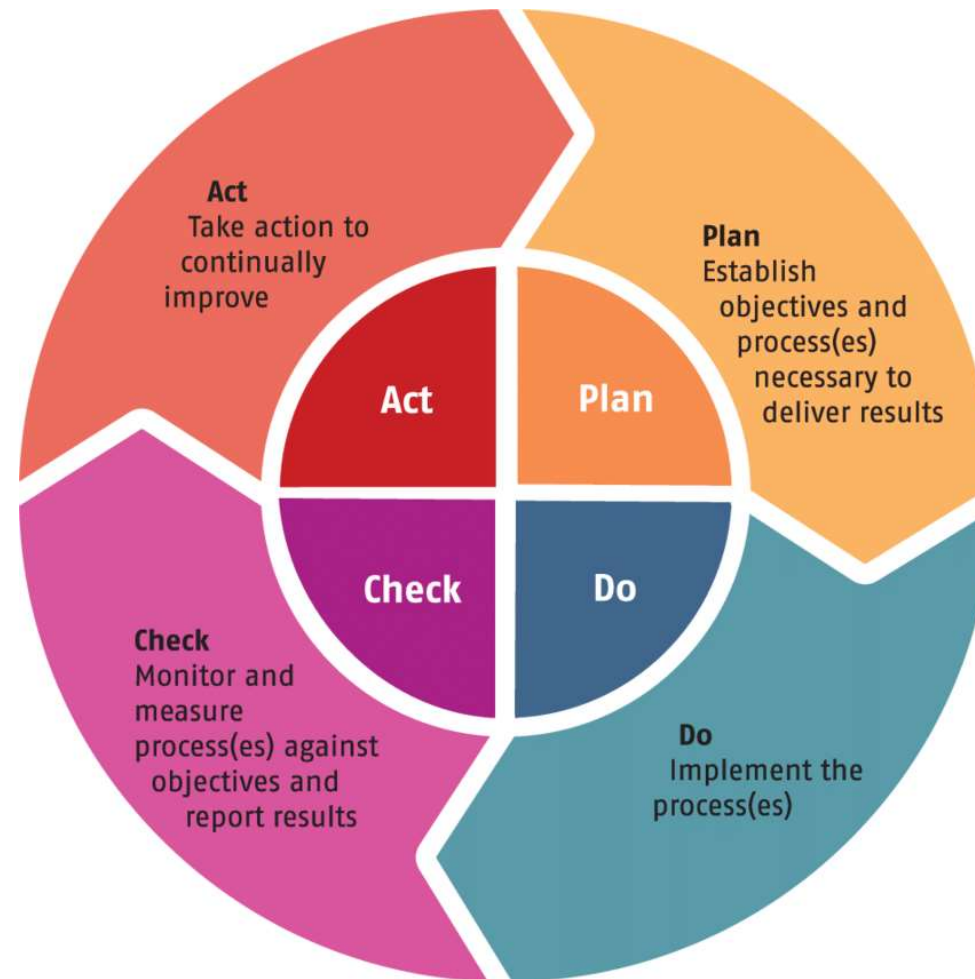


# CONTINUOUS PROCESS IMPROVEMENT

- Continuous process improvement is designed to utilize the resources of the organization to achieve a quality-driven culture.
- Improvement is made by
  - Viewing all work as process.
  - Making all process effective, efficient and adaptable.
  - Anticipating changing customer needs.
  - Controlling in-process performance using measures such as scrap reduction, control charts etc.
  - Eliminating waste and re-work.
  - Eliminating non-value added activities.
  - Eliminating non-conformities.
  - Using Benchmarking.
  - Incorporating learned lessons into future activities.
  - Using technical tools such as SPC, benchmarking, experimental design, QFD etc.



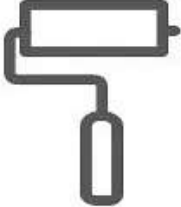




# CONTI...





# 5S

<i>Seiri</i>	<i>Seiton</i>	<i>Seison</i>	<i>Seiketsu</i>	<i>Shitsuke</i>
				
<i>Sort</i>	<i>Set in order</i>	<i>Shine</i>	<i>Standardize</i>	<i>Sustain</i>
<hr/> <p>Remove all of the clutter from the work place</p>	<hr/> <p>Organize in an efficient and ergonomic manner.</p>	<hr/> <p>Clean up the entire area removing all dirt</p>	<hr/> <p>Ensure standard ways of working for the first three stages.</p>	<hr/> <p>Ensure that 5S principles are part of the culture</p>



# KAIZEN

- Kaizen is a Japanese word for the philosophy that defines management's roles in continuously encouraging and implementing small improvements involving everyone.
- It focuses on simplification by breaking down complex progress into their sub – processes and then improving them.
- Guiding principles are:
  1. Good processes bring good results
  2. Go see for yourself to grasp the current situation
  3. Speak with data, manage by facts
  4. Take action to contain and correct root causes of problems
  5. Work as a team
  6. Kaizen is everybody's business

# KAIZEN WHEEL





# REFERENCES

1. Dale H. Besterfield, "Total Quality Management", Third Edition, Pearson Education Asia, Indian Reprint, 2016.
2. Dr S. Kumar, "Total Quality Management", Laxmi Publications Ltd., New Delhi 2006.



