



# SNS COLLEGE OF TECHNOLOGY

Coimbatore-35

An Autonomous Institution

Accredited by NBA – AICTE and Accredited by NAAC – UGC with 'A+' Grade

Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai



## DEPARTMENT OF MECHANICAL ENGINEERING

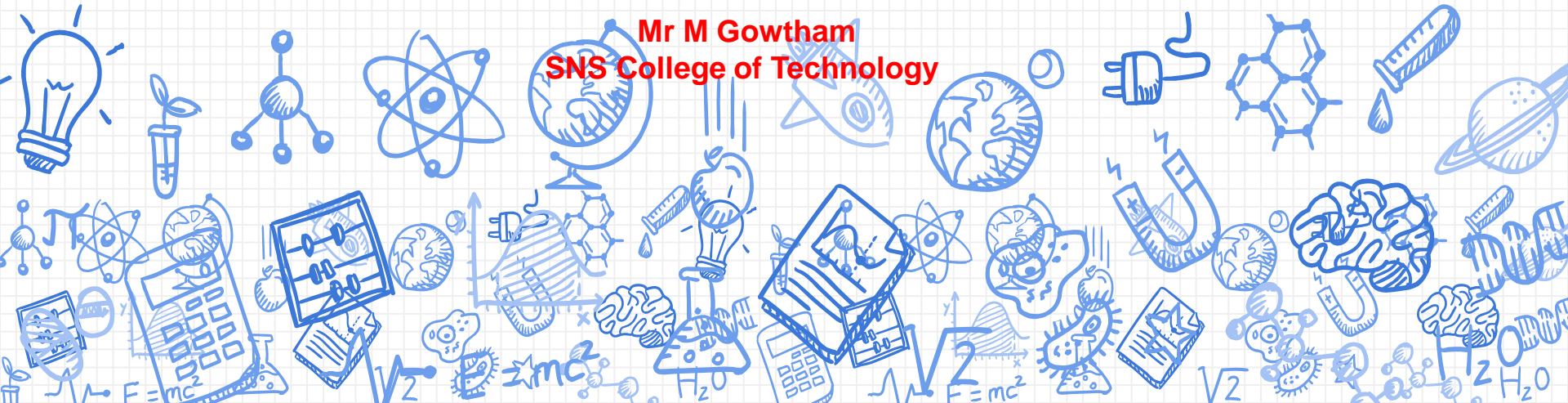
### 19MEE 304 – TOTAL QUALITY MANAGEMENT

#### III YEAR - V SEM

#### UNIT 2 – TQM PRINCIPLES

#### TOPIC – Continuous Process Improvement

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SNS College of Technology



# Continuous Process Improvement

Continuous process improvement (CIP) is the ongoing effort to improve product, services or processes through incremental or breakthrough changes.

Definition-

Continuous process improvement (CPI) is the act of implementing improvements to a product, service or process. These changes can either be incremental (over time) or breakthrough (all at once).

# Continuous Process Improvement

Achieve Perfection.

Work as Process to make it Effective, Efficient, and Adaptable.

Changing Customer Needs.

Control in process-Reduce Scrap, Time, Idle of Resources.

Eliminate Non Conformance in All Phases.

Bench Marking.

Innovation.

Statistical Tools, QFD, FMEA. Taguchi Loss Function.

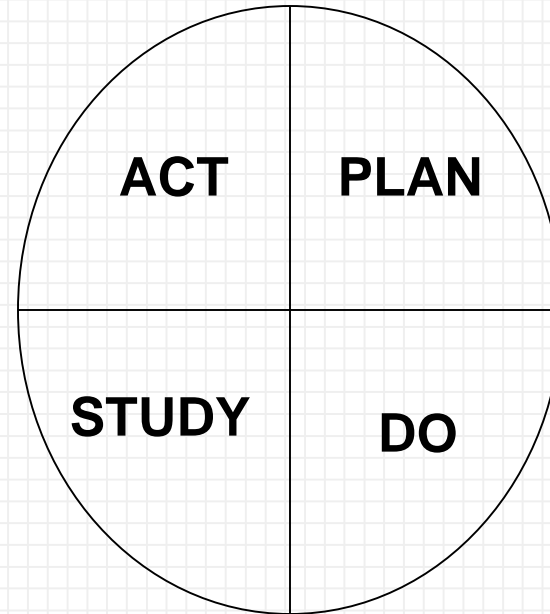
# Shewhart's PDSA CYCLE in 1930

PLAN

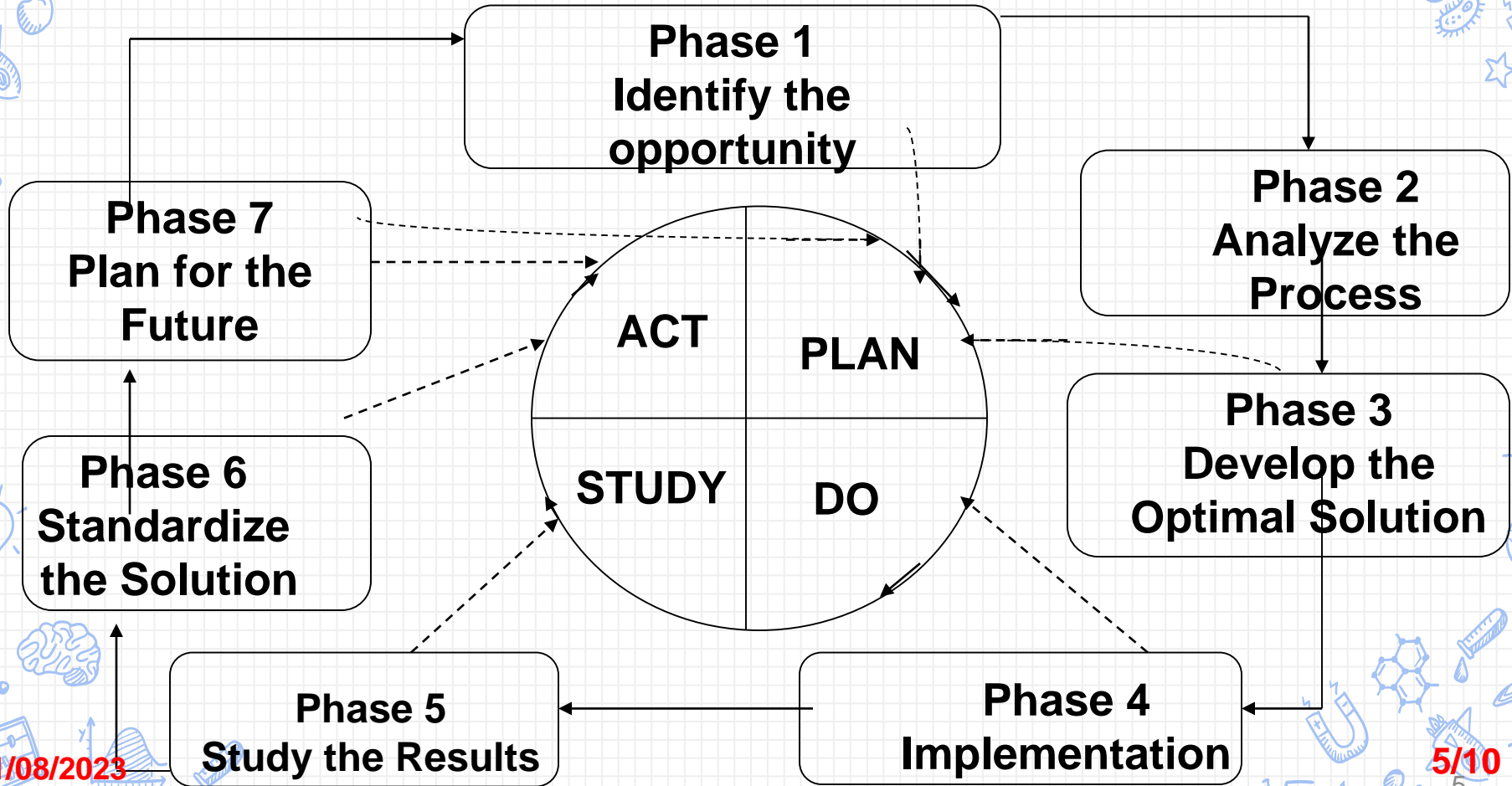
DO

STUDY

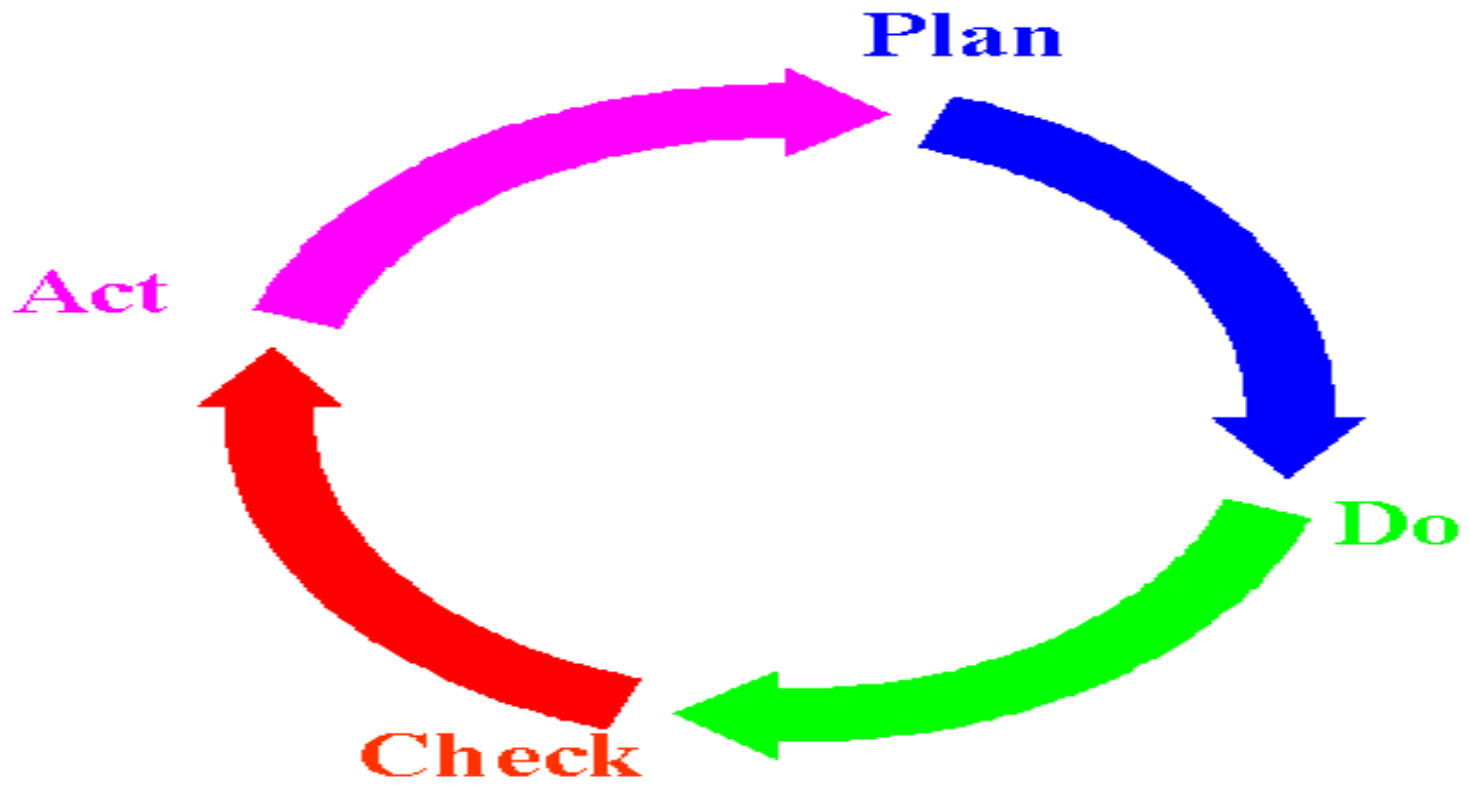
ACT



# Continuous Process Improvement Cycle (PDSA Cycle)



# Deming Wheel



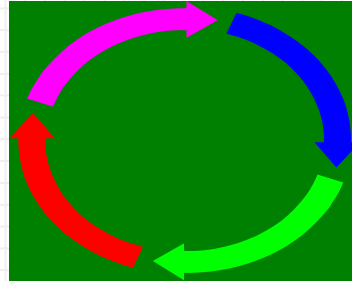
# The Deming Cycle or PDCA Cycle

## PLAN

Plan a change to the process. Predict the effect this change will have and plan how the effects will be measured

## ACT

Adopt the change as a permanent modification to the process, or abandon it.



## DO

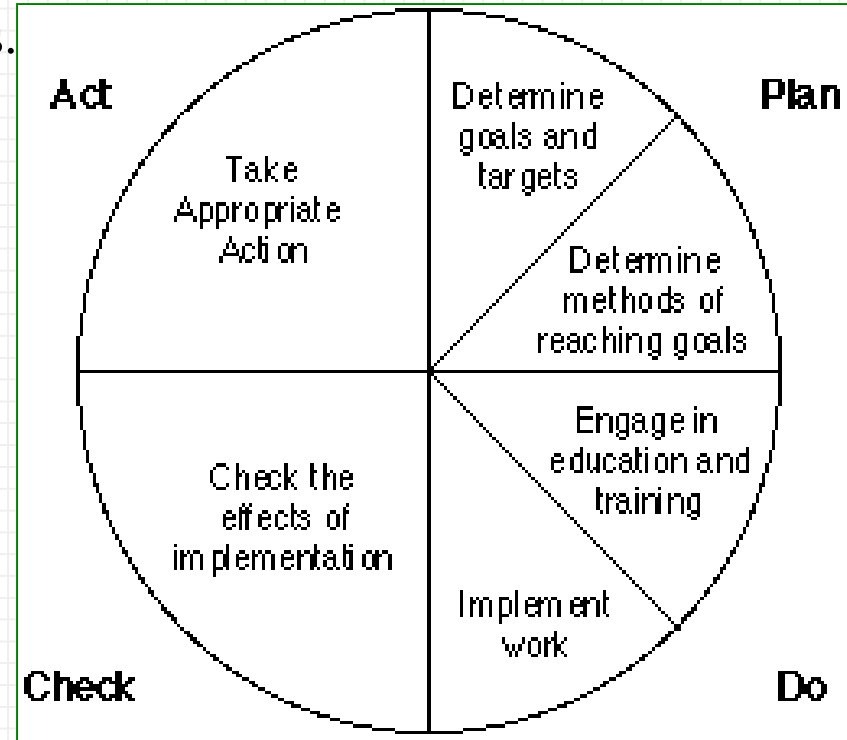
Implement the change on a small scale and measure the effects

## CHECK

Study the results to learn what effect the change had, if any.

## Kaoru Ishikawa has expanded Deming's four steps into six:

- ❖ Determine goals and targets.
- ❖ Determine methods of reaching goals.
- ❖ Engage in education and training.
- ❖ Implement work.
- ❖ Check the effects of implementation.
- ❖ Take appropriate action.





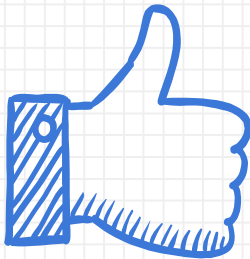
# Quality Improvement Strategies

Repair

Refinement

Renovation

Reinvention



THANKS!

01/08/2023

10/10

