

## Application of PDCA Cycle in Safety Management System

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### ABSTRACT

*PDCA Cycle is very effective approach that use in management system to get organizational goal. PDCA means Plan, Do, Check, Act and such method is effective to apply in Quality management System, Safety Management System and Other field of management system. This help to identify organization objective, method and resources require for achieving such objective, fulfill compliance obligation and several parameters are to be decided to run organization smoothly and safely for success business. In this Paper PDCA cycle will link with Safety Management System that help to control organizational harm and fulfill Safety related code, Standard & Practices. This Article is very helpful to know effective parameter that will cover under PDCA cycle to control work place risk.*

**Keyword:** PDCA, Plan, Do, Check, Act, PDCA approach, Safety Management system (SMS), Risk Control

### OBJECTIVE:

This Article is very help to understand application of PDCA cycle in Safety Management system and control work place risk. PDCA approach will help to identify objective, plan to achieve objective, checking & taking needful action for improvement.

### 1. INTRODUCTION

Now a day every organization seeks & applies effective approach to grow their business and organization success. To Success of any organization, several factors require in which one major factor is Safety Management System. Safety Management is effective approach that use to control organization risk in term of prevent to injury, Protect to environment or get protection from any untoward happening. Policy, Planning, Implementations & Operation, Checking &

Corrective action and Continual improvement are element of Safety Management System (SMS). These all elements can be align with PDCA cycle to understand easily and implement to Safety Management system in organization effectively. Effective Safety Management System will help to Control potential sources of harm or situation of organization. Under PDCA approach all element of Safety Management system will be align and sub element of SMS will be decided for understanding effectiveness of such approach.

PDCA help to understand the steps of element of Safety Management system that apply to control organization risk. Effective ways to apply this approach are easy and this can be easily implemented.

## 2. PDCA Cycle:

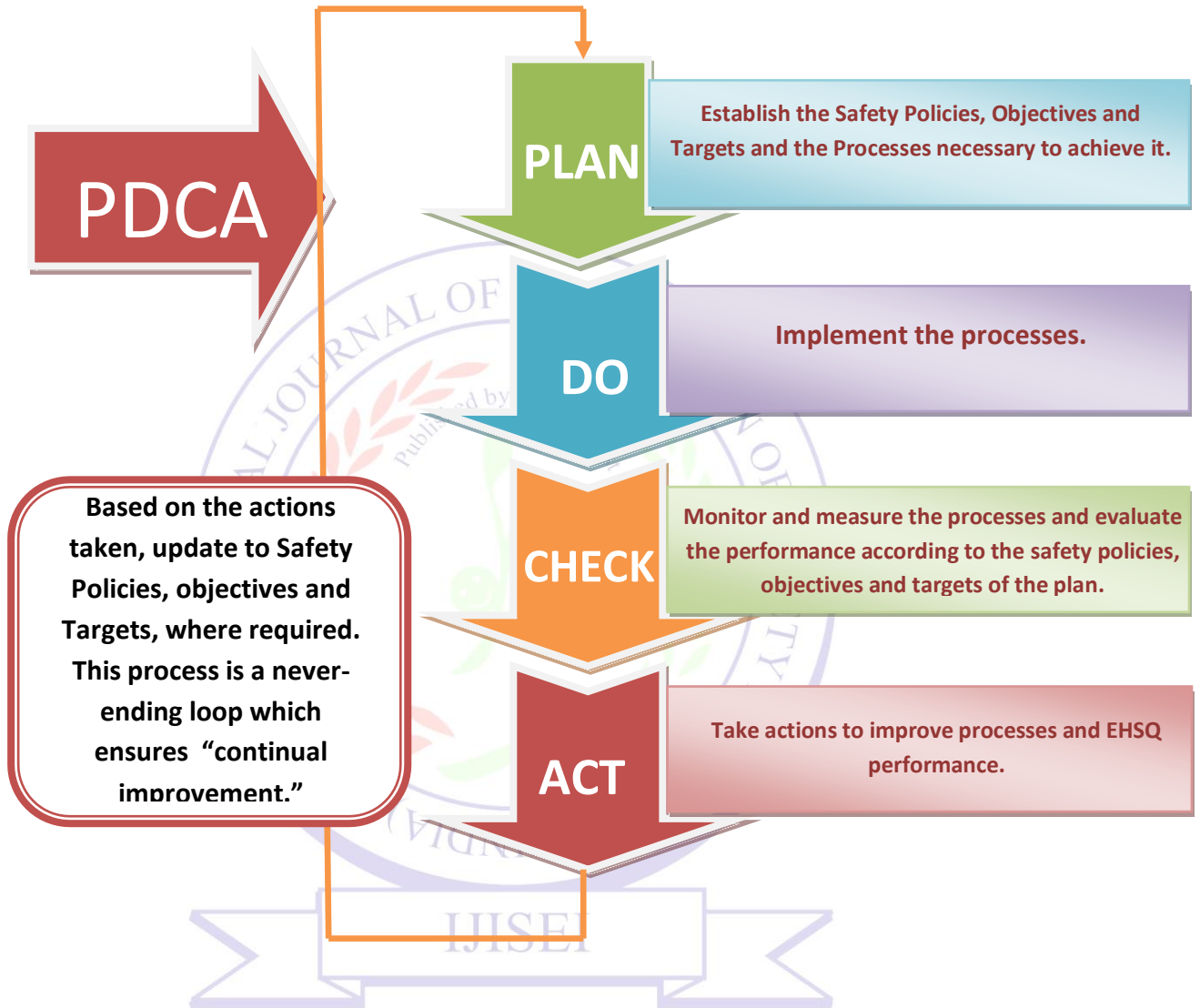
The Plan, Do, Check, Act approach maintain a balance between the systems and Risk aspect of behaviour of organization people. It interacts and show that health and safety management is an integral part of effective management to control work place Risk.

**1 Plan:** Determine to Safety Policy including Plan for implementation

**2 Do:** Profile risks & delegate role and responsibility to implement plan

**3 Check:** Measure to organization safety performance (Apply proactive & Reactive approach to control risk)

**4 Act:** Review Safety performance, Take needful action on based on finding & Act on lessons Learned



**Fig. 1, PDCA Approach**



**Fig. 2, PDCA Cycle**

### 3. Effective Method to apply PDCA Approach

Zero Or less harm in any Organisation can be achieved through below steps:

- Understand to organization, Develop Safety Policy, Decide objective, identify Plan and ensure effective way to achieve such Objective
- Implement to Planned activity including Policy, Procedures, Norms & Codes.
- Check regularly to Implemented Safety management system (SMS) to find status of compliance, Investigate to incident
- Act needful action on based of finding to ensure adequate control measure i.e compliance of Non-Conformance.

## 4. Conclusion:

PDCA is known as Plan Do Check Act Approach and this is also known as name of PDCA cycle.

PDCA Cycle has application in different management system including Safety Management System. This approach gives basic idea and concept to understand parameters of Safety Management system that use to prevent accident and control work place risk. This Approach should be apply in every process of organization to control risk upto tolerable level. Effective Approach will help to control organization harm, Increase organisation reputation and increase profitability. Poor Approach results ineffective implementation of Safety management system and latter this results Accident. This is suitable and easy approach that can be understood by any one and they can apply to this approach in organisation. If all concerns employee will apply this approach then such group effort will be lead to accident free to organization. This Approach is completely based on Practical and practical approach is effective way to decide organization risk, Plan to activity to control such risk, checking to compliance of applicable items and taking needful action on based on review for improvements.

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