

SAMPLE PAPER

Variation

Name

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Course

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Variation is the difference that occurs as a result of the decision-making process.

Variation according to Walter Shewhart, can be viewed in two different ways. It can be taken as an occurrence of a change or as a random variation that does not involve any change at all. When deciding on improvement matters, it is critical to understand the nature of the variation to avoid making unnecessary decisions. Therefore it can be argued that a change is expected/normal or usual since a common cause produces it. Change can also be unexpected or unusual if it is known to be produced by special causes (Strating & Nieboer, 2012). The importance of using variation in quality improvement is that it helps identify the changes that are caused by natural factors and those due to workers inconsistency.

The technique that is applicable in measuring variation is the statistical process control. The tool is used to distinguish between the two types of variations and helps decision makers with an operational definition of how to get the best out of the process. The statistical process control makes use of two techniques to analyze the variation. The variation can be analyzed through control charts or process behavior charts. Therefore, decision makers use this technique to know the source of the variation. Such helps them to know whether the variation can be controlled or is uncontrollable depending on the source of the variation (Rahman, 2018). In any organization that has identified the existence of a variation or the source of the variation, it has to take the necessary measures. It can either train its employees if the variation is controllable or change the uncontrollable variation to controllable variation since under such state its behavior can be predicted. The prediction makes it possible for the planning of organization matters.

References

Rahman, S. (2018). A Conceptual Framework for Variation Reduction. *Quality Improvement Through Statistical Methods*, 35-44. doi:10.1007/978-1-4612-1776-3_4

Strating, M. M., & Nieboer, A. P. (2012). Explaining variation in perceived team effectiveness: results from eleven quality improvement collaboratives. *Journal of Clinical Nursing*, 22(11-12), 1692-1706. doi:10.1111/j.1365-2702.2012.04120.x

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