

Assessing the degree of readiness for the implementation of TPM

(Case study conducted at Bahman Motor Co.)

The concept of this research is, assessing the level of readiness for the implementation of Total Productive Maintenance in the Iranian Chassis Manufacturing Co.

In order to answer the principle question of this research, "To what extent is the Iranian Chassis Manufacturing Co. ready for the implementation of Total Productive Maintenance?" four questions are set forth:

1. To what extent is the senior management committed to the implementation and execution of TPM?
2. What is the level of work force contribution and inclination regarding the implementation and execution of TPM?
3. What is the usage level of statistical process control tools?
4. What is the usage level of maintenance and repair methods?

The statistical target group is 50 of the Iranian Chassis Manufacturing Company's managers, experts and production line supervisors. In this research, the Random Sampling Method was employed for data collection. According to Morgan's Table, the sample size is 44. The same number of questionnaires was handed out which, 31 were returned.

This research based on the method of data collection, is of the descriptive measurement kind. The temporal limit of research was May to November 2009; and the spacial limit was the Iranian Chassis Manufacturing Co.

Collection of data was based on library findings and field studies. Using library findings, readiness factors of TPM implementation were recognized; thereafter, readiness data were collected using questionnaires.

In order to analyze the data, the comparison of target group average with assumed average test was employed. The assumption of readiness less or equal to average (3) was designated to H_0 and readiness more than average was designated to H_1 . Statistics of test Z was calculated using SPSS and then compared

to the critical amount in the confidence level of 95%. This procedure was carried out in the principle questions of the research and questionnaire.

After analysis, the readiness information of the Chassis Manufacturing Company based on the four principle questions of the research and as a result, the main



question, were all placed below average. Respondents to the questionnaire assessed the first three questions more than average. Two questions were regarding the contribution of the work force and one question related to net methods. Overall, considering the individual answers, work force contribution achieved first place in terms of readiness and following were net methods, management commitment and SPC tools.

In conclusion, the researcher presented his recommendations regarding the improvement of the organisational readiness level in direction of implementing Total Productive Maintenance.

