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Effective Implementation of Cycle Time Reduction in a Manufacturing Unit: A Case Study

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Abstract

Today's fierce competition amongst the manufacturers and increasing demand from the customers regarding variety in product design is forcing manufacturers to improve upon their operations strategies. As newer technologies are introduced time to develop new products and to supply these products to the customer has reduced greatly. One way of achieving this is to reduce the cycle time required for producing new products. In the present study a case is taken up of a manufacturing industry that manufactures variety of products. Cycle time reduction is achieved by identifying and implementing more efficient ways to carry out the operations by workers. Non-value value added activities have been eliminated Reduction in cycle time have provided a significant impact on a company's bottom line. This study is carried out by using the micro level study format called as the standardized work combination table (SWCT). The task performed at once is further subdivided in smaller number of units, this assists in calculating the time loss. Greater emphasis is given on the waiting time and various methods have been suggested to reduce the waiting time and subsequently cycle time reduction is achieved.