

CRITICAL ANALYSIS OF IMPLEMENTATION OF JIT IN TECHNICAL INDUSTRY

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Abstract

Just-in-Time is a name given to an approach of continuous improvement in which non-value-adding activities or wastes are identified and removed for the purposes of reducing cost, improving quality, performance, delivery and flexibility. JIT relies on basic concepts from many disciplines, including statistics, industrial engineering, production management and behavioural science. For successful implementation of JIT all the elements (for example Buffer stock removal, employee empowerment, total quality control, shortly time, standardization etc.) must be properly understood, measured and implemented. JIT is not about automation. Typically, JIT eliminates waste by providing the environment to perfect and simplify the processes. Conceptual details of JIT and other such new approaches to manufacturing management are well known to many Indian firms. However, there is a lack of internalization of these concepts, leading to varying degrees of conviction and clarity at the time of implementation. This has resulted in wide variations in the perception and implementation patterns among Indian firms.

Keywords : JIT - Just in time, LTA – Loss time analysis, OEE – Overall equipment efficiency, Cycle time – Time required to complete the process (From raw materials to finished goods), FTF – floor to floor, Rolling – When metal is compressed between two rotating rolls for reducing its cross section