

Manufacturing Execution System - MES

Decisive potential in business today is a question of process capability, rather than production capability. Process capability in business requires real-time systems for optimization. Business-IT needs to be developed from telecommunications and ERP to real-time services, which are not offered by the prevailing ERP systems. This book shows how modern information technology Manufacturing Execution Systems (MES) becomes the prerequisite for process capability of the company on the basis of many practical examples. It describes the requirements for optimized MES. It gives an overview of the efficiency potentials and different applications of MES. Modern MES offer real-time applications that can be used to optimize process capability in business.

The transformation of the classic factory from a production facility into a modern service center has resulted in management problems for which many companies are not yet prepared. The economic efficiency of modern value creation is not a property of the products but rather of the process. What this means is that the decisive potentials of companies are to be found not so much in their production capability but in their process capability. For manufacturers the requirement for process capability, which has in the meantime become the basis of the certification codes, gives rise in turn to the requirement that all value-adding processes be geared to the process result and thus to the customer. A necessary condition of process transparency is the ability to map the company's value stream in real time, without the acquisition process involving major outlay, a capability which is beyond the dominant ERP systems. Today modern manufacturing execution systems (MES) can offer real-time applications. They generate current and even historical maps for production equipment and can thus be used as a basis for optimization processes. As early as the beginning of the 1980s work started on methods of this kind which were then known as production data acquisition or machine data collection. But while the main emphasis in the past was on achieving improvements in machine utilization, today the concern is predominantly to obtain real-time mapping of the value stream (supply chain).



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