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Structural Modeling of a Manufacturing Organization Focusing on Worker Allocation

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Abstract

Managers in the modern manufacturing world are under constant pressure of time cost and quality of products and services. As a result having a wrong structural model for any part of the production floor would be expensive enough to carry on. In this research a detail study was conducted to illustrate the structural model for the packaging section of a renowned pharmaceutical of Bangladesh. The prime objective was to set a structure for the packaging lines of their secondary packaging section. The target was to find out the optimum number of workers needed to give the maximum output from each line of the secondary packaging. Along with this other objectives were defining each steps needed to pack the products, measuring the time required to perform each step, measuring the work performance of the worker, scheduling the work and allocate the capacity, finding out the unoccupied time, calculating the output per hour with the detail use of work measurement and time study and Gantt chart. Thus a complete model was developed to organize the packaging section with an optimum number of workers for eight different types of products.