

Improving Productivity of Men's Suit Jacket Production Lines through Time Study "Case Study"

Mostafa A. A. Badawy

Lecturer, Ready-Made Garments Technology Program, Faculty of Technology of Industry and Energy, Samannoud Technological Uni
mostafabadawy1990@gmail.com

Marim A. A. Hussien

Lecture in Ready-Made Garments department, Faculty of Applied Arts, Damietta Uni.
Marim.aziem87@gmail.com

Abstract:

Today, the ready-made garment industry faces some challenges in terms of quality, on-time delivery and cost. To improve these aspects, it is necessary to improve productivity. Although the ready-made garment industry has many departments, the processes that take place in the production hall as well as the labor on the production lines play a major role. Therefore, the proper use of line balancing technology can help the production line achieve better productivity. Therefore, productivity in ready-made garment factories is a vital measure of operational efficiency and competitiveness. It can be defined in terms of the effectiveness of labor, materials and equipment, and measured using different methods, including time and motion studies, line balancing, standard minute value, efficiency measures, and lean manufacturing techniques. By using these methods, ready-made garment factories can identify shortcomings, streamline operations and significantly enhance their productivity. Measuring productivity is crucial for any industry. Enhancing productivity is essential to increasing profits using the same resources. Improving productivity helps satisfy customers and reduces the time and cost associated with developing, producing and delivering products. In this research, a case study was conducted in one of the men's suit factories for the men's suit jacket product, where the current situation of the current suit jacket production lines was analyzed using the time study and some improvements were made to the path of some production processes to achieve the highest productivity and balance the production lines to obtain the best use of equipment, raw materials and labor, and develop an appropriate model to improve the productivity of men's suit jackets.

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