

Large manufacturing companies have adopted the just-in-time production model and lean thinking because these methods have greatly improved work, increased efficiency, reduced costs, and enhanced the ability to meet all the requirements of the changing market. One example of this is when Toyota adopted the just-in-time production process and implemented the flexible manufacturing process, which was one of the global standards. Companies adopt a set of principles related to flexible production in order to be able to reach a simplification of the set of steps for operations and ensure the process of participation in all activities that can contribute significantly to creating the value of the product. The flexible thinking process is also characterized by completing the production process in a just-in-time manner, all by focusing on continuous improvement by identifying and eliminating the amount of waste within the organization in all its forms. Whether this waste is represented by the element of lost time in production or represented by the unnecessary transportation process or this waste can represent the amount of excess inventory in warehouses. Instead of reaching a set of expectations, Toyota could reduce the amount of waste by using elements such as reducing the costs of the production process and working on improving the quality of the products. On the other hand, lean thinking emphasizes creating more value for customers but with a small amount of resources by eliminating non-value-added activities, which can often be referred to as waste. In a highly competitive global market, companies can face great pressure to reduce costs while maintaining quality or maximizing service delivery. The just-in-time production model allows companies to reduce a range of inefficiencies because they are doing a good job of producing while focusing on the actual demand. These advantages work more flexibly and can also adapt to this change quickly in reaching consumer preferences. All of this made this system enable the company to quickly adapt to the set of consumer variables and reach the highest level of market requirements. As companies continue to focus on operating within complex and increasingly competitive environments, the use of this strategy is considered in order to maintain all competitive advantages. All this was done by producing a group of vehicles that were distinguished by being manufactured based on customer orders. This gives complete savings and great flexibility without sacrificing the efficiency of the product. Therefore, large manufacturing companies also worked on implementing the just-in-time production process and paying attention to the manufacturing process because this approach allows them to reach the highest rate in the process of competition more effectively. Excess inventory can become obsolete or damaged. This reduces the need to access a large amount of inventory and reduces waste.