

SUPPLY CHAIN MANAGEMENT STRATEGIES IN CONSTRUCTION

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Annotation: This thesis highlights the importance of effective supply chain management in the construction sector, the existing problems and modern strategies aimed at solving them. In construction projects, the supply chain plays an important role in the timely supply of resources, reducing costs and compliance with project deadlines.

Keywords: construction, supply chain, logistics, strategy, resource management, digitization.

Аннотация: В данной диссертации освещается важность эффективного управления цепочкой поставок в строительной отрасли, имеющиеся проблемы, а также современные стратегии их решения. В строительных проектах цепочка поставок играет важную роль в обеспечении своевременной доставки ресурсов, сокращении затрат и соблюдении сроков реализации проекта.

Ключевые слова: строительство, цепочка поставок, логистика, стратегия, управление ресурсами, оцифровка

The production plan determines how much and what type of products an enterprise will produce over a certain period of time. This plan is closely related to the production method and inventory (warehouse) capacity.

The main solution to this problem lies in coordinating the production method, production plan, and inventory capacity. An enterprise must determine inventory levels in accordance with its production method and develop a production plan while taking warehouse capacity into account. Through advance demand analysis and rational inventory management, costs are reduced, production efficiency is increased, and market needs are met in a timely manner.

While the production method defines how the production process is organized, inventory capacity ensures a balance between production and market demand.

The main types of production methods include mass production, batch (serial) production, and make-to-order production. In mass production, identical products are manufactured in large volumes, and the production plan remains stable. In this case, fluctuations in demand are mainly absorbed through finished goods inventory. In batch production, products are manufactured in specific lots; the production plan is relatively flexible, and inventory levels are maintained at a moderate level. In make-to-order production, products are manufactured based on specific customer orders, and there is almost no finished goods inventory.

Inventory capacity plays a significant role in developing a production plan. Enterprises with large inventory capacities can maintain a steady level of production. In contrast, enterprises with limited inventory capacity must ensure that their production plans quickly adapt to market demand. Inventories ensure continuity of the production process and help prevent disruptions in production.

Overall, the effective coordination of production methods, production planning, and inventory capacity is the key to solving this problem. By aligning inventory levels with production methods, considering

warehouse capacity in planning, forecasting demand in advance, and managing inventories efficiently, enterprises can reduce costs, improve production efficiency, and meet market demand on time.

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