

## ALGORITHM OF FOOD FACTORY CREATION

(Name)

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## Algorithm of Food Factory Creation

There are multiple factors that precede the creation of a sustainable and modern food plant facility which would benefit the life of the local community, environment, and business that initiated its construction. Typically, food factories produce well-known types of nutrition from greens to meat, although only successful planning and an appropriate choice of location can make the venture successful. By keeping the right location in mind, scheduling effective logistics, and product specifications as the focus of the facility, the factory would become self-sustainable in a relatively short time.

The choice of the right location must coincide with the size and operational needs of a business capacity not only in the exact moment of planning, but in the future as well. The topography of the location should also be taken into account, because while lowlands are prone to floods, highlands might be struck with sharp winds.<sup>1</sup> The next step would be to review the underground soil structure, because it has to be stable without underlying oil deposits, waters, or unstable geological positioning susceptible to earthquakes. It is a common practice for communities wishing to develop to acquire industrial certification to create food production facilities. As a result, the choice of a community that has undergone detailed certification would be allowed to obtain the precise description of area specifications without extra surveying.

The next step is dedicated to the choice of the product which the facility is expected to manufacture. Market research is necessary in this case to extract data on market needs, packaging, pricing, and competitiveness of other brands.<sup>2</sup> The selection of ingredients should

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<sup>1</sup> Schug, Debra. "Building a Future Food Factory." Food Engineering RSS. April 20, 2018. Accessed August 02, 2018. <https://www.foodengineeringmag.com/articles/96980-building-a-future-food-factory>.

<sup>2</sup> Simkovich, Don. "How to Start a Food Manufacturing Business." Small Business - Chron.com. November 21, 2017. Accessed August 02, 2018. <https://smallbusiness.chron.com/start-food-manufacturing-business-2393.html>.

also be assessed in a complex modus operandi. Afterwards, the choice of the right supplier is usually preceded by obtaining tax exemption on wholesale food purchasing. In this case, the accredited programs offered by the Food Safety Institute of America should be taken into account, along with liability insurance to secure the business from possible factory failure.

Food safety is the proceeding step in ensuring that its security comes as a top priority during manufacturing, in which utilization of any sort of expired or low-quality products should be meticulously avoided. The design of the secured facility will include regulation mechanisms of product contamination, food hygiene systems, and handling logistics from one stage of manufacturing to another. The key requirement in this scenario is to separate various parts of manufacturing to exclude the chance of sanitary failure and infestations to keep the process clean and organized. Manufacturing strategies should also be evaluated to consider such factors as the cost of renting, access to materials, and the length of the logistical chain. The type of packaging method is also usually chosen at this stage.

Discussing a marketing strategy is one of the last stages in the factory food production algorithm when pricing, distribution, and promotion become outlined. The pricing of a product can be extremely flexible in terms of market conditions and initial positioning set by the business. Nevertheless, the key goal every facility should meet at this point is to cover expenditures, while maximizing income in spite of high competitiveness. Finally, the organization of distribution channels should be chosen as direct, indirect, or both at the same time. The participation of third parties, including wholesalers and retailers, is also frequently resorted to considering the benefits of the rapid expansion of the market.

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